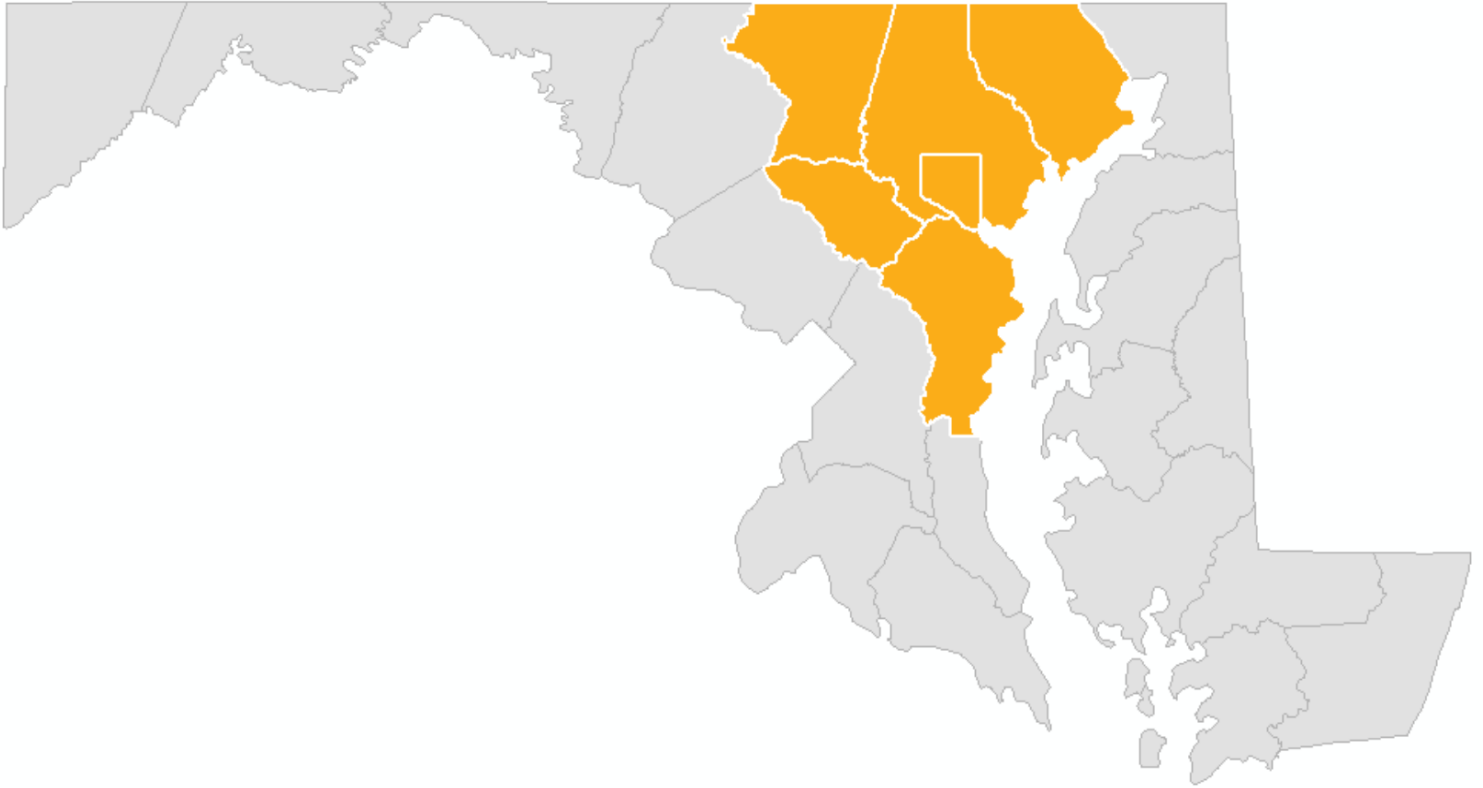


2017



Central Region Annual HIV Epidemiological Profile

Data reported through June 30, 2018



Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phone numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. The most recent Centers for Disease Control and Prevention (CDC) estimate of the number of people living with undiagnosed HIV infection is 14.5 percent for the United States and 14.0 percent for Maryland in 2015. Using the CDC CD4 depletion model on Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 11.6 percent in 2016. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of December 31, 2017. Residence at diagnosis and age at diagnosis are used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during

the most recent nine and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

This epidemiological profile contains data for transgender HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2017. Historically, it has been difficult to fully present data by current gender identification. Data on transgender people has been limited in the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS). No reliable system exists for collecting or reporting gender identity and some agencies do not collect or have complete data on gender identity. This report is likely underreporting the number transgender HIV and AIDS cases because of challenges in accurately identifying and reporting gender identity in HIV surveillance.

Lastly, the completeness of reporting for race/ethnicity is variable in surveillance data. Definitions of race/ethnicity categories may vary across agencies and some agencies do not collect or have complete data on race/ethnicity. This report may be overreporting the number of Multiracial HIV and AIDS cases because of challenges in accurately identifying and reporting race/ethnicity in HIV surveillance.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and

previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2017 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV from January 1, 2017 through December 31, 2017, as reported by name through June 30, 2018.

To calculate the number of Living Cases we count all Reported Diagnoses from the beginning of the epidemic (all new cases each year) and subtract all Reported Deaths. For example, the Total Living HIV Cases on December 31, 2017 are the total reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of June 30, 2018 as reported by name through June 30, 2018.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14 percent. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's eHARS, June 30, 2018.

Population data by sex, age, and race/ethnicity are from the July 1, 2017 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2016 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from the Centers for Disease Control and Prevention's HIV Surveillance Supplemental Report published March 2018. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Exposure/risk data is not suppressed due to statistical adjustment resulting in the reporting of estimated or probable risk.

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who report a history of sexual contact with other men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Male-to-male Sexual Contact (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Contact (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

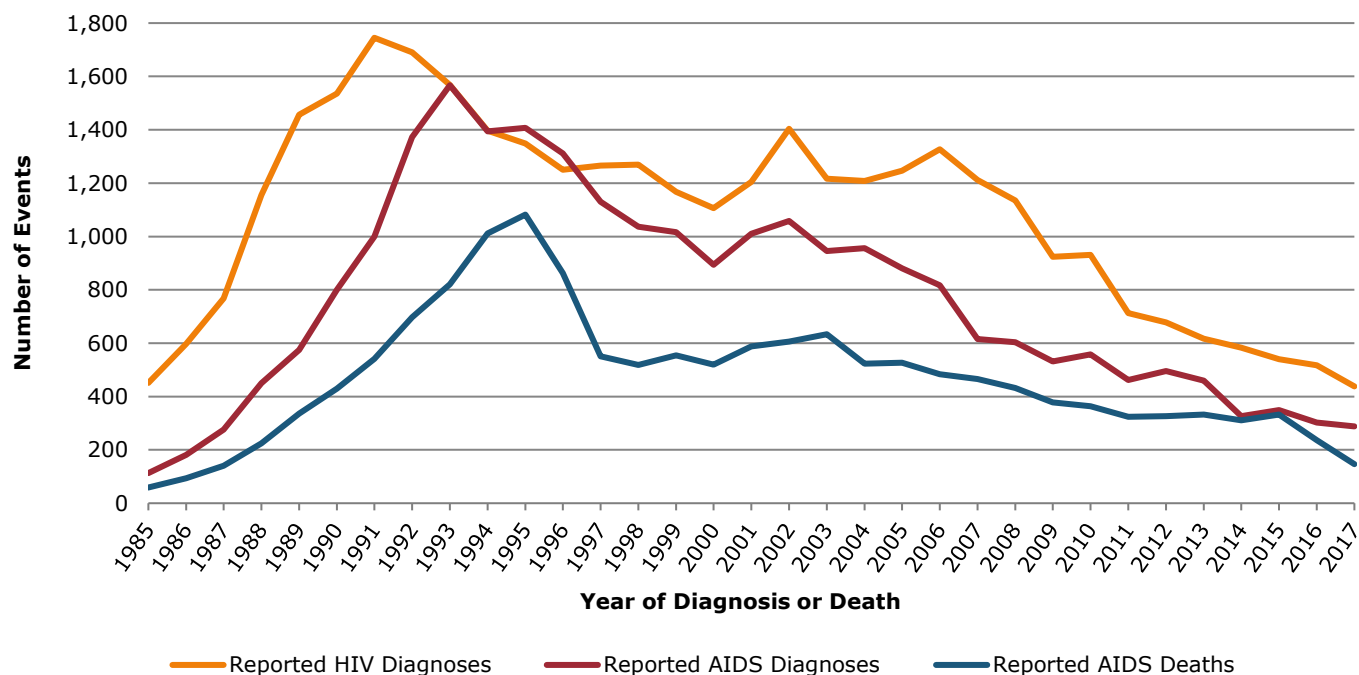
Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates. Perinatal transmission and other exposure categories are never estimated or adjusted and depict the reported exposure category.

Section II – Trends 1985-2017

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2017 as Reported through June 30, 2018

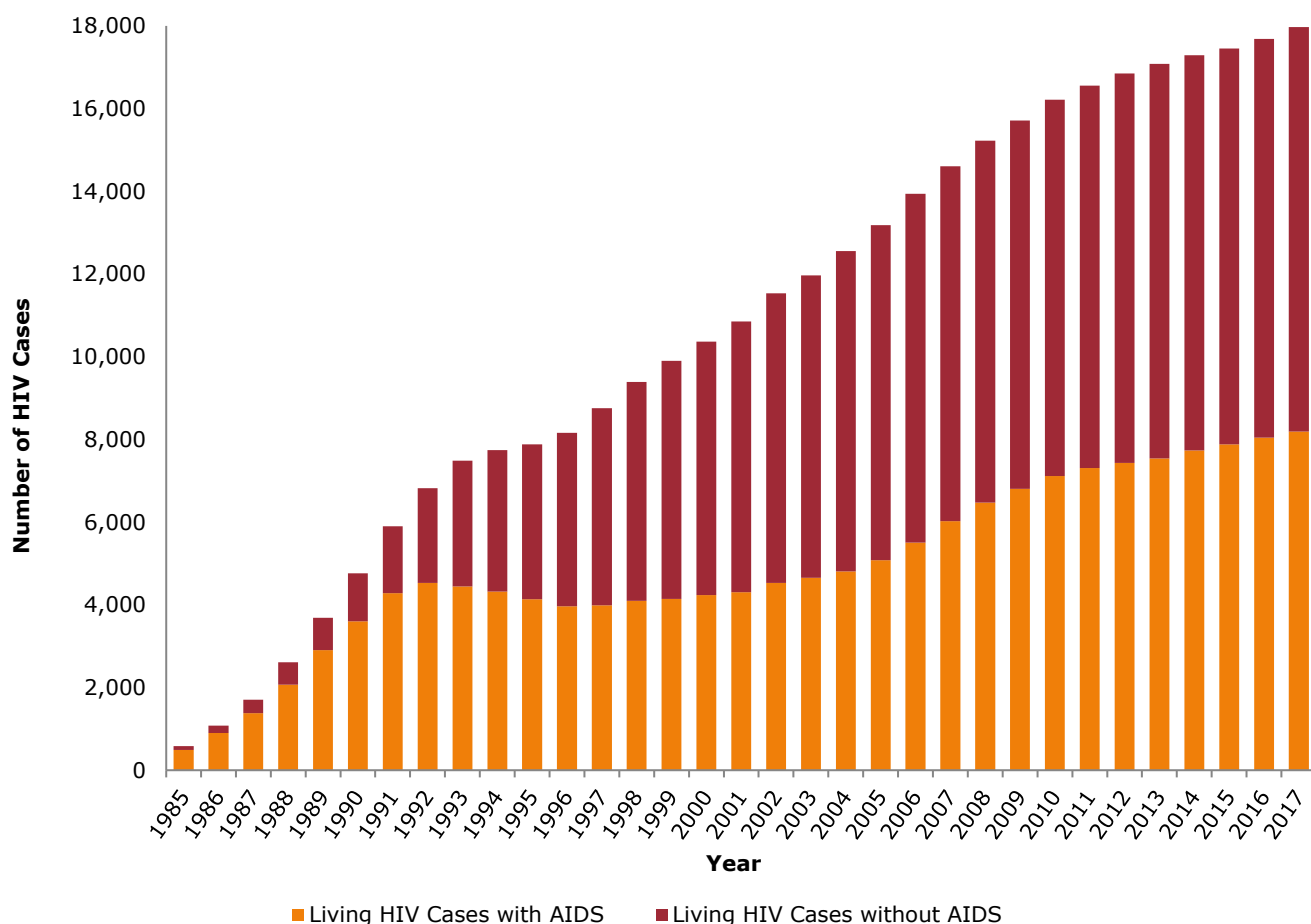


Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths	Year of Diagnosis or Death	Reported HIV Diagnoses	Reported AIDS Diagnoses	Reported AIDS Deaths
<1985	236	78	36	2001	1,205	1,010	588
1985	451	113	59	2002	1,404	1,058	606
1986	597	181	94	2003	1,216	945	633
1987	768	276	140	2004	1,208	956	523
1988	1,156	450	224	2005	1,246	881	527
1989	1,457	575	336	2006	1,327	817	484
1990	1,536	800	429	2007	1,212	616	465
1991	1,745	1,000	541	2008	1,135	604	432
1992	1,691	1,373	697	2009	924	532	378
1993	1,568	1,567	821	2010	931	558	363
1994	1,396	1,394	1,012	2011	713	462	324
1995	1,349	1,407	1,082	2012	678	496	326
1996	1,250	1,311	863	2013	617	460	332
1997	1,266	1,130	551	2014	583	327	311
1998	1,269	1,037	518	2015	540	349	333
1999	1,167	1,016	554	2016*	517	303	236
2000	1,106	894	519	2017*	438	288	147
				Total	35,902	25,264	15,484

*2016-2017 reported AIDS deaths are preliminary

Figure 2 – Trends in Living HIV Cases, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

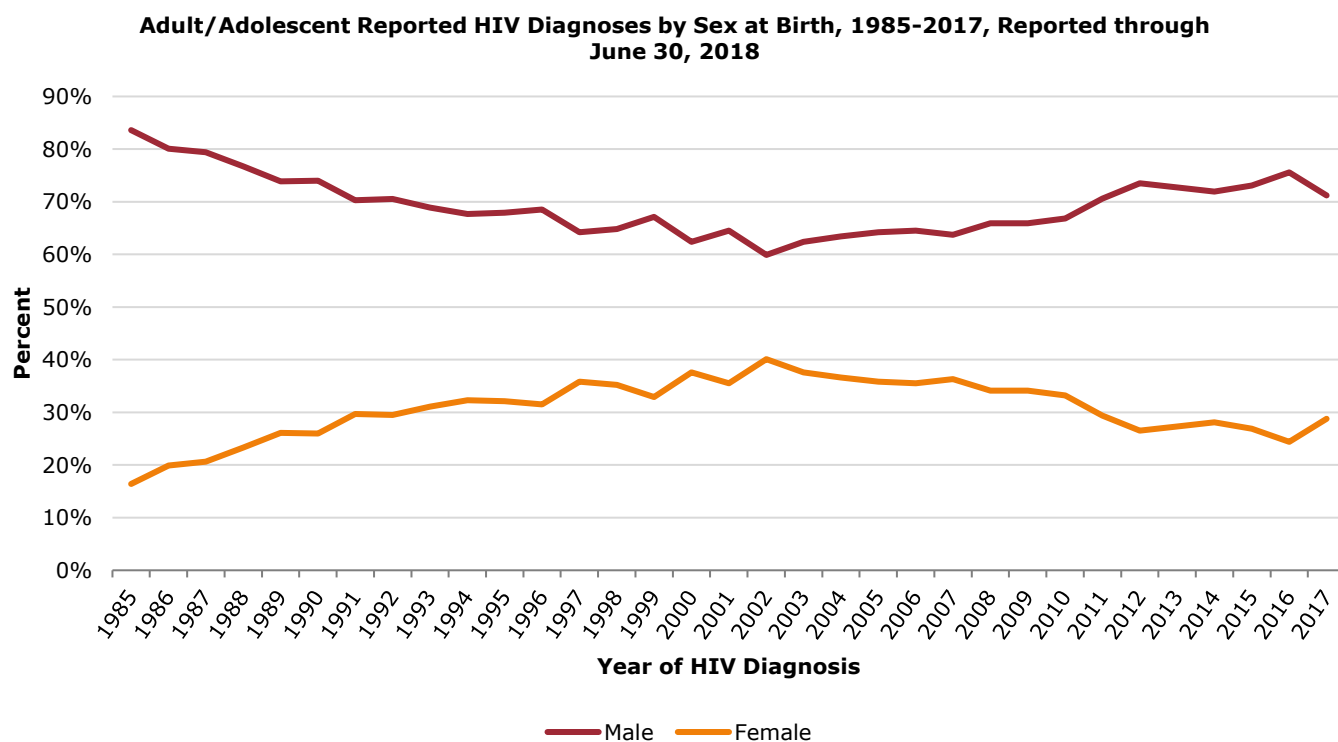
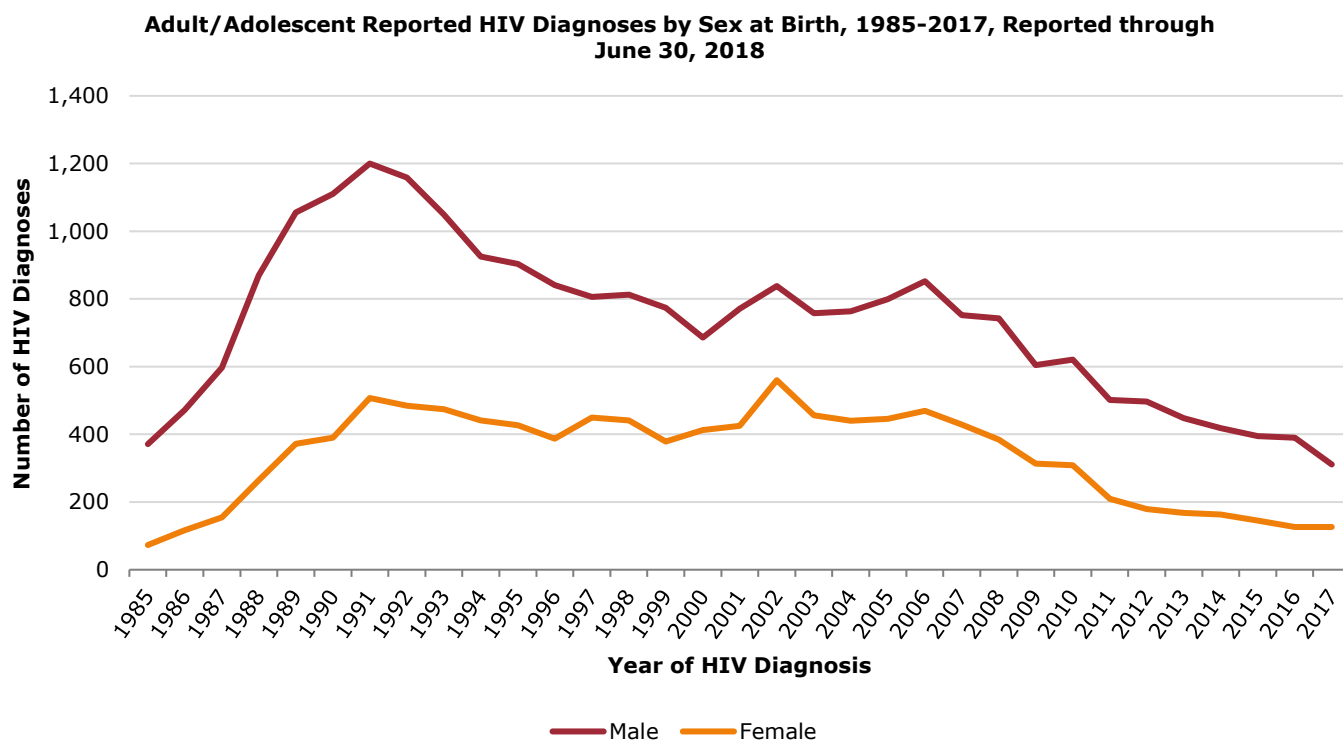
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2017, as Reported through June 30, 2018



Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases	Year	Living HIV Cases without AIDS	Living HIV Cases with AIDS	Total Living HIV Cases
1985	490	96	586	2002	4,532	7,002	11,534
1986	897	183	1,080	2003	4,651	7,314	11,965
1987	1,383	320	1,703	2004	4,808	7,747	12,555
1988	2,068	546	2,614	2005	5,083	8,101	13,184
1989	2,902	785	3,687	2006	5,505	8,434	13,939
1990	3,605	1,156	4,761	2007	6,021	8,585	14,606
1991	4,284	1,615	5,899	2008	6,471	8,757	15,228
1992	4,531	2,291	6,822	2009	6,802	8,911	15,713
1993	4,448	3,037	7,485	2010	7,112	9,106	16,218
1994	4,320	3,420	7,740	2011	7,310	9,244	16,554
1995	4,136	3,745	7,881	2012	7,432	9,414	16,846
1996	3,965	4,193	8,158	2013	7,543	9,542	17,085
1997	3,986	4,772	8,758	2014	7,730	9,558	17,288
1998	4,098	5,291	9,389	2015	7,881	9,574	17,455
1999	4,146	5,753	9,899	2016	8,041	9,641	17,682
2000	4,238	6,128	10,366	2017	8,190	9,782	17,972
2001	4,306	6,550	10,856				

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

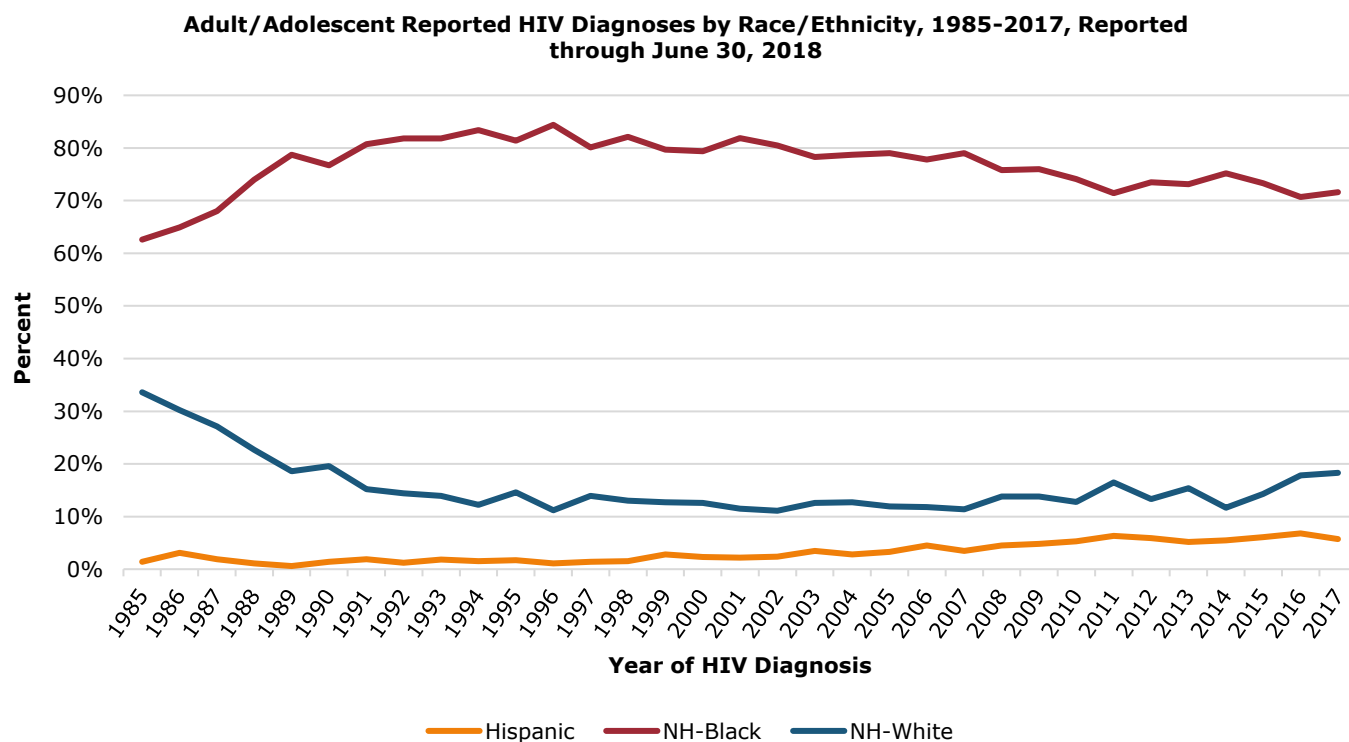
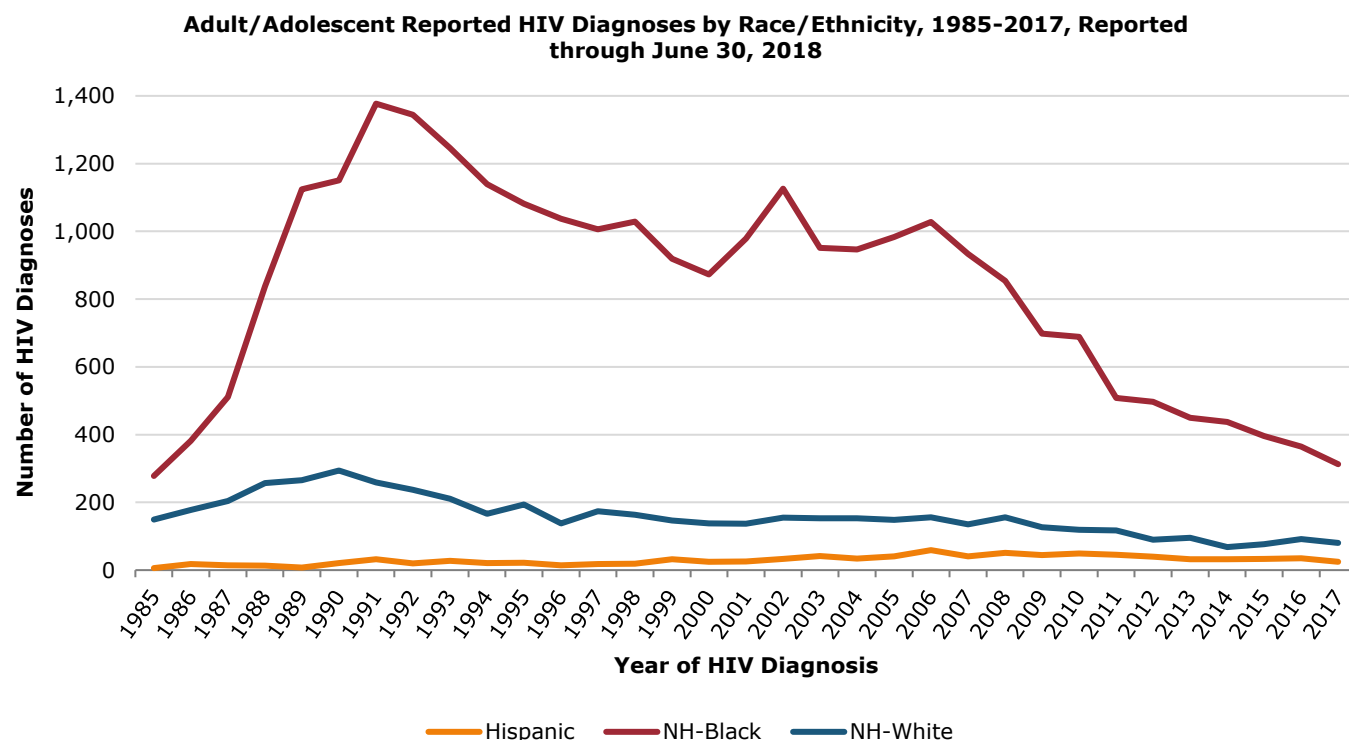
Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



Adult/Adolescent Reported HIV Diagnoses					
Year of HIV Diagnosis	No.	Sex at Birth			
		Male		Female	
		No.	%	No.	%
<1985	234	203	86.8%	31	13.2%
1985	444	371	83.6%	73	16.4%
1986	589	472	80.1%	117	19.9%
1987	752	597	79.4%	155	20.6%
1988	1,133	869	76.7%	264	23.3%
1989	1,428	1,056	73.9%	372	26.1%
1990	1,500	1,110	74.0%	390	26.0%
1991	1,707	1,200	70.3%	507	29.7%
1992	1,644	1,159	70.5%	485	29.5%
1993	1,523	1,049	68.9%	474	31.1%
1994	1,366	925	67.7%	441	32.3%
1995	1,330	903	67.9%	427	32.1%
1996	1,228	841	68.5%	387	31.5%
1997	1,256	806	64.2%	450	35.8%
1998	1,254	813	64.8%	441	35.2%
1999	1,153	774	67.1%	379	32.9%
2000	1,099	686	62.4%	413	37.6%
2001	1,196	771	64.5%	425	35.5%
2002	1,398	838	59.9%	560	40.1%
2003	1,214	758	62.4%	456	37.6%
2004	1,203	763	63.4%	440	36.6%
2005	1,245	799	64.2%	446	35.8%
2006	1,321	852	64.5%	469	35.5%
2007	1,181	752	63.7%	429	36.3%
2008	1,127	743	65.9%	384	34.1%
2009	918	605	65.9%	313	34.1%
2010	930	621	66.8%	309	33.2%
2011	711	502	70.6%	209	29.4%
2012	676	497	73.5%	179	26.5%
2013	616	448	72.7%	168	27.3%
2014	581	418	71.9%	163	28.1%
2015	540	395	73.1%	145	26.9%
2016	516	390	75.6%	126	24.4%
2017	437	311	71.2%	126	28.8%
Total	35,450	24,297	68.5%	11,153	31.5%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018

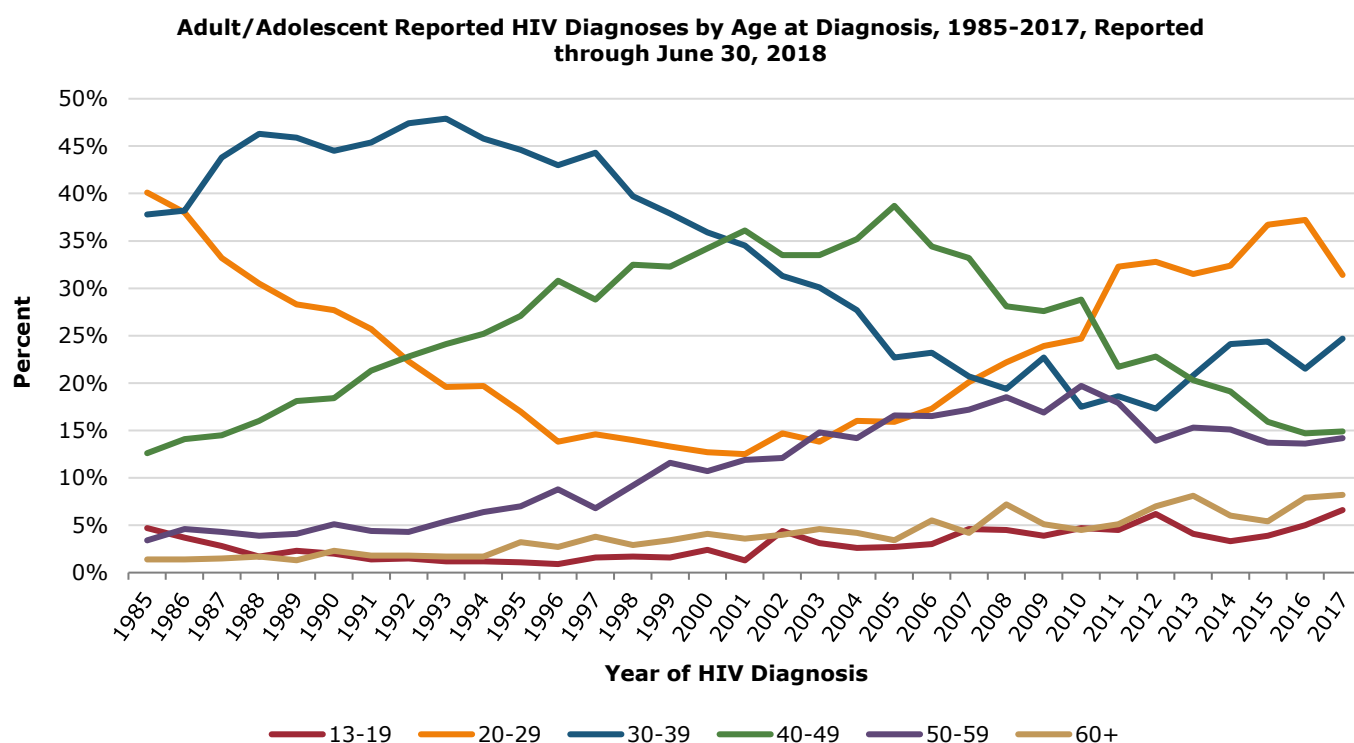
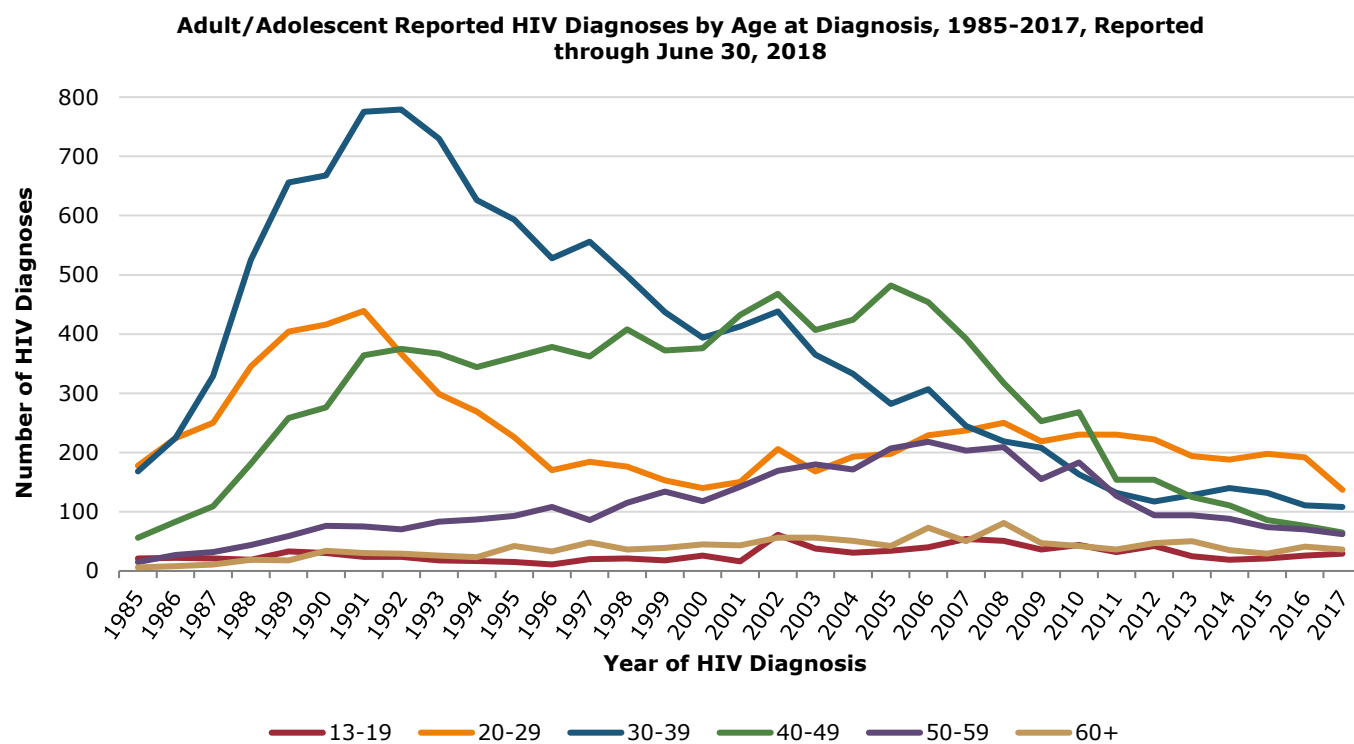


Non-Hispanic Other race not shown

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses								
	No.	Race/Ethnicity							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	234	7	3.0%	125	53.4%	95	40.6%	7	3.0%
1985	444	6	1.4%	278	62.6%	149	33.6%	11	2.5%
1986	589	18	3.1%	382	64.9%	178	30.2%	11	1.9%
1987	752	14	1.9%	511	68.0%	204	27.1%	23	3.1%
1988	1,133	13	1.1%	838	74.0%	257	22.7%	25	2.2%
1989	1,428	8	0.6%	1,124	78.7%	265	18.6%	31	2.2%
1990	1,500	21	1.4%	1,151	76.7%	294	19.6%	34	2.3%
1991	1,707	32	1.9%	1,377	80.7%	259	15.2%	39	2.3%
1992	1,644	20	1.2%	1,344	81.8%	237	14.4%	43	2.6%
1993	1,523	27	1.8%	1,246	81.8%	211	13.9%	39	2.6%
1994	1,366	21	1.5%	1,139	83.4%	166	12.2%	40	2.9%
1995	1,330	22	1.7%	1,082	81.4%	194	14.6%	32	2.4%
1996	1,228	14	1.1%	1,037	84.4%	138	11.2%	39	3.2%
1997	1,256	18	1.4%	1,006	80.1%	174	13.9%	58	4.6%
1998	1,254	19	1.5%	1,029	82.1%	163	13.0%	43	3.4%
1999	1,153	32	2.8%	919	79.7%	146	12.7%	56	4.9%
2000	1,099	25	2.3%	873	79.4%	138	12.6%	63	5.7%
2001	1,196	26	2.2%	979	81.9%	137	11.5%	54	4.5%
2002	1,398	33	2.4%	1,126	80.5%	155	11.1%	84	6.0%
2003	1,214	42	3.5%	951	78.3%	153	12.6%	68	5.6%
2004	1,203	34	2.8%	947	78.7%	153	12.7%	69	5.7%
2005	1,245	41	3.3%	983	79.0%	148	11.9%	73	5.9%
2006	1,321	59	4.5%	1,028	77.8%	156	11.8%	78	5.9%
2007	1,181	41	3.5%	933	79.0%	135	11.4%	72	6.1%
2008	1,127	51	4.5%	854	75.8%	156	13.8%	66	5.9%
2009	918	44	4.8%	698	76.0%	127	13.8%	49	5.3%
2010	930	49	5.3%	689	74.1%	119	12.8%	73	7.8%
2011	711	45	6.3%	508	71.4%	117	16.5%	41	5.8%
2012	676	40	5.9%	497	73.5%	90	13.3%	49	7.2%
2013	616	32	5.2%	450	73.1%	95	15.4%	39	6.3%
2014	581	32	5.5%	437	75.2%	68	11.7%	44	7.6%
2015	540	33	6.1%	396	73.3%	77	14.3%	34	6.3%
2016	516	35	6.8%	365	70.7%	92	17.8%	24	4.7%
2017	437	25	5.7%	313	71.6%	80	18.3%	19	4.3%
Total	35,450	979	2.8%	27,615	77.9%	5,326	15.0%	1,530	4.3%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

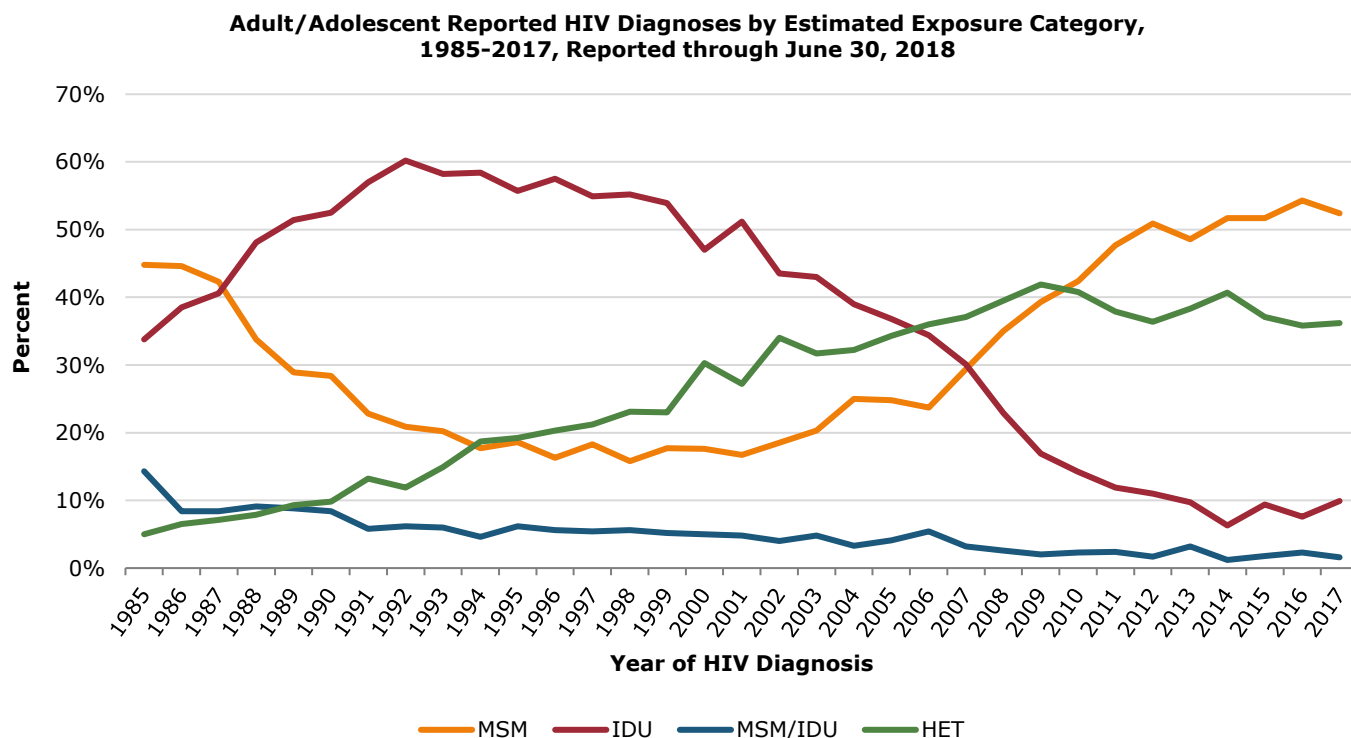
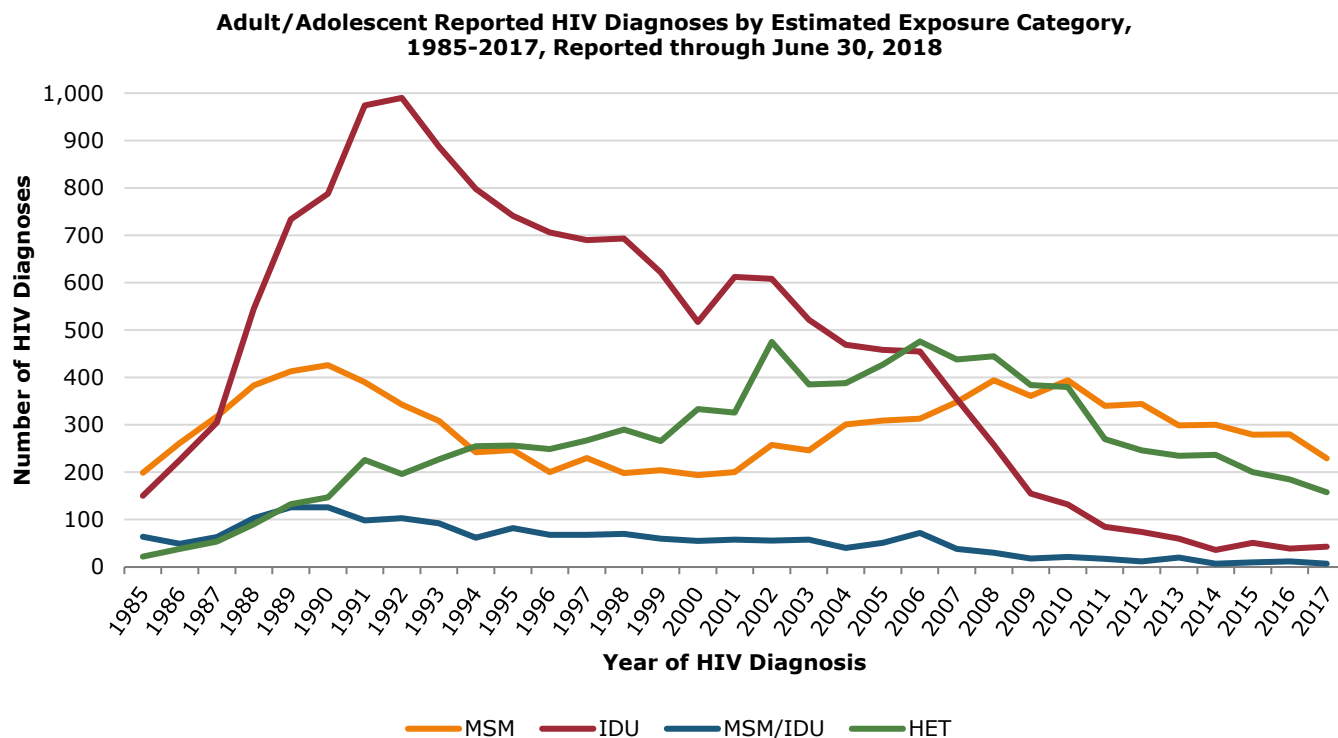
Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



Adult/Adolescent Reported HIV Diagnoses													
Year of HIV Diagnosis	No.	Age at HIV Diagnosis											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	234	15	6.4%	101	43.2%	72	30.8%	31	13.2%	14	6.0%	1	0.4%
1985	444	21	4.7%	178	40.1%	168	37.8%	56	12.6%	15	3.4%	6	1.4%
1986	589	22	3.7%	224	38.0%	225	38.2%	83	14.1%	27	4.6%	8	1.4%
1987	752	21	2.8%	250	33.2%	329	43.8%	109	14.5%	32	4.3%	11	1.5%
1988	1,133	19	1.7%	345	30.5%	525	46.3%	181	16.0%	44	3.9%	19	1.7%
1989	1,428	33	2.3%	404	28.3%	656	45.9%	258	18.1%	59	4.1%	18	1.3%
1990	1,500	30	2.0%	416	27.7%	668	44.5%	276	18.4%	76	5.1%	34	2.3%
1991	1,707	24	1.4%	439	25.7%	775	45.4%	364	21.3%	75	4.4%	30	1.8%
1992	1,644	24	1.5%	367	22.3%	779	47.4%	375	22.8%	70	4.3%	29	1.8%
1993	1,523	18	1.2%	299	19.6%	730	47.9%	367	24.1%	83	5.4%	26	1.7%
1994	1,366	17	1.2%	269	19.7%	626	45.8%	344	25.2%	87	6.4%	23	1.7%
1995	1,330	15	1.1%	226	17.0%	593	44.6%	361	27.1%	93	7.0%	42	3.2%
1996	1,228	11	0.9%	170	13.8%	528	43.0%	378	30.8%	108	8.8%	33	2.7%
1997	1,256	20	1.6%	184	14.6%	556	44.3%	362	28.8%	86	6.8%	48	3.8%
1998	1,254	21	1.7%	176	14.0%	498	39.7%	408	32.5%	115	9.2%	36	2.9%
1999	1,153	18	1.6%	153	13.3%	437	37.9%	372	32.3%	134	11.6%	39	3.4%
2000	1,099	26	2.4%	140	12.7%	394	35.9%	376	34.2%	118	10.7%	45	4.1%
2001	1,196	16	1.3%	150	12.5%	413	34.5%	432	36.1%	142	11.9%	43	3.6%
2002	1,398	61	4.4%	206	14.7%	438	31.3%	468	33.5%	169	12.1%	56	4.0%
2003	1,214	38	3.1%	168	13.8%	365	30.1%	407	33.5%	180	14.8%	56	4.6%
2004	1,203	31	2.6%	193	16.0%	333	27.7%	424	35.2%	171	14.2%	51	4.2%
2005	1,245	34	2.7%	198	15.9%	282	22.7%	482	38.7%	207	16.6%	42	3.4%
2006	1,321	40	3.0%	229	17.3%	307	23.2%	454	34.4%	218	16.5%	73	5.5%
2007	1,181	54	4.6%	237	20.1%	245	20.7%	392	33.2%	203	17.2%	50	4.2%
2008	1,127	51	4.5%	250	22.2%	219	19.4%	317	28.1%	209	18.5%	81	7.2%
2009	918	36	3.9%	219	23.9%	208	22.7%	253	27.6%	155	16.9%	47	5.1%
2010	930	44	4.7%	230	24.7%	163	17.5%	268	28.8%	183	19.7%	42	4.5%
2011	711	32	4.5%	230	32.3%	132	18.6%	154	21.7%	127	17.9%	36	5.1%
2012	676	42	6.2%	222	32.8%	117	17.3%	154	22.8%	94	13.9%	47	7.0%
2013	616	25	4.1%	194	31.5%	128	20.8%	125	20.3%	94	15.3%	50	8.1%
2014	581	19	3.3%	188	32.4%	140	24.1%	111	19.1%	88	15.1%	35	6.0%
2015	540	21	3.9%	198	36.7%	132	24.4%	86	15.9%	74	13.7%	29	5.4%
2016	516	26	5.0%	192	37.2%	111	21.5%	76	14.7%	70	13.6%	41	7.9%
2017	437	29	6.6%	137	31.4%	108	24.7%	65	14.9%	62	14.2%	36	8.2%
Total	35,450	954	2.7%	7,782	22.0%	12,400	35.0%	9,369	26.4%	3,682	10.4%	1,263	3.6%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, among Residents at Diagnosis, 1985-2017, Reported through June 30, 2018

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2017, as Reported through June 30, 2018



Other exposure category not shown

§ Multiple imputation was used to estimate and adjust for missing transmission category.

Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses											
	No.	% with No Reported Exposure [‡]	Estimated Exposure Category [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	234	2.6%	129	55.2%	62	26.5%	26	11.0%	8	3.5%	9	3.8%
1985	444	4.3%	199	44.8%	150	33.8%	64	14.3%	22	5.0%	9	2.0%
1986	589	3.1%	262	44.6%	226	38.5%	49	8.4%	38	6.5%	12	2.0%
1987	752	2.9%	318	42.3%	305	40.6%	63	8.4%	54	7.1%	12	1.6%
1988	1,133	3.0%	383	33.8%	545	48.1%	103	9.1%	90	7.9%	13	1.1%
1989	1,428	2.7%	413	28.9%	734	51.4%	126	8.8%	133	9.3%	22	1.5%
1990	1,500	4.2%	426	28.4%	788	52.5%	126	8.4%	147	9.8%	13	0.9%
1991	1,707	3.7%	390	22.8%	974	57.0%	98	5.8%	226	13.2%	19	1.1%
1992	1,644	4.7%	343	20.9%	990	60.2%	103	6.2%	196	11.9%	12	0.7%
1993	1,523	2.8%	308	20.2%	887	58.2%	92	6.0%	227	14.9%	9	0.6%
1994	1,366	4.0%	242	17.7%	798	58.4%	62	4.6%	255	18.7%	9	0.7%
1995	1,330	4.1%	247	18.6%	741	55.7%	82	6.2%	256	19.2%	4	0.3%
1996	1,228	4.3%	200	16.3%	706	57.5%	68	5.6%	249	20.3%	5	0.4%
1997	1,256	6.1%	230	18.3%	690	54.9%	68	5.4%	267	21.2%	2	0.2%
1998	1,254	5.2%	198	15.8%	693	55.2%	70	5.6%	290	23.1%	4	0.3%
1999	1,153	7.3%	204	17.7%	622	53.9%	60	5.2%	266	23.0%	2	0.2%
2000	1,099	7.1%	194	17.6%	517	47.0%	55	5.0%	333	30.3%	1	0.1%
2001	1,196	7.9%	200	16.7%	612	51.2%	58	4.8%	326	27.2%	1	0.1%
2002	1,398	10.4%	258	18.5%	608	43.5%	56	4.0%	475	34.0%	1	0.1%
2003	1,214	9.5%	246	20.3%	522	43.0%	58	4.8%	385	31.7%	3	0.2%
2004	1,203	10.2%	301	25.0%	469	39.0%	40	3.3%	388	32.2%	5	0.4%
2005	1,245	14.5%	309	24.8%	458	36.8%	51	4.1%	427	34.3%	1	0.1%
2006	1,321	18.7%	313	23.7%	455	34.4%	72	5.4%	476	36.0%	6	0.5%
2007	1,181	20.1%	348	29.4%	355	30.1%	38	3.2%	438	37.1%	3	0.3%
2008	1,127	27.4%	394	35.0%	258	22.9%	30	2.6%	445	39.5%	0	0.0%
2009	918	28.2%	361	39.3%	155	16.9%	18	2.0%	384	41.9%	0	0.0%
2010	930	32.3%	394	42.4%	132	14.2%	21	2.3%	380	40.8%	3	0.3%
2011	711	26.9%	340	47.7%	85	11.9%	17	2.4%	270	37.9%	0	0.0%
2012	676	17.9%	344	50.9%	74	11.0%	12	1.7%	246	36.4%	0	0.0%
2013	616	11.4%	299	48.6%	60	9.7%	20	3.2%	235	38.3%	1	0.2%
2014	581	9.1%	300	51.7%	36	6.3%	7	1.2%	237	40.7%	1	0.2%
2015	540	5.9%	279	51.7%	51	9.4%	10	1.8%	200	37.1%	0	0.0%
2016	516	12.6%	280	54.3%	39	7.6%	12	2.3%	185	35.8%	0	0.0%
2017	437	13.7%	229	52.4%	43	9.9%	7	1.6%	158	36.2%	0	0.0%
Total	35,450	9.7%	9,882	27.9%	14,838	41.9%	1,839	5.2%	8,708	24.6%	182	0.5%

§ Multiple imputation was used to estimate and adjust for missing transmission category

‡Percent with no reported exposure prior to multiple imputation adjustment

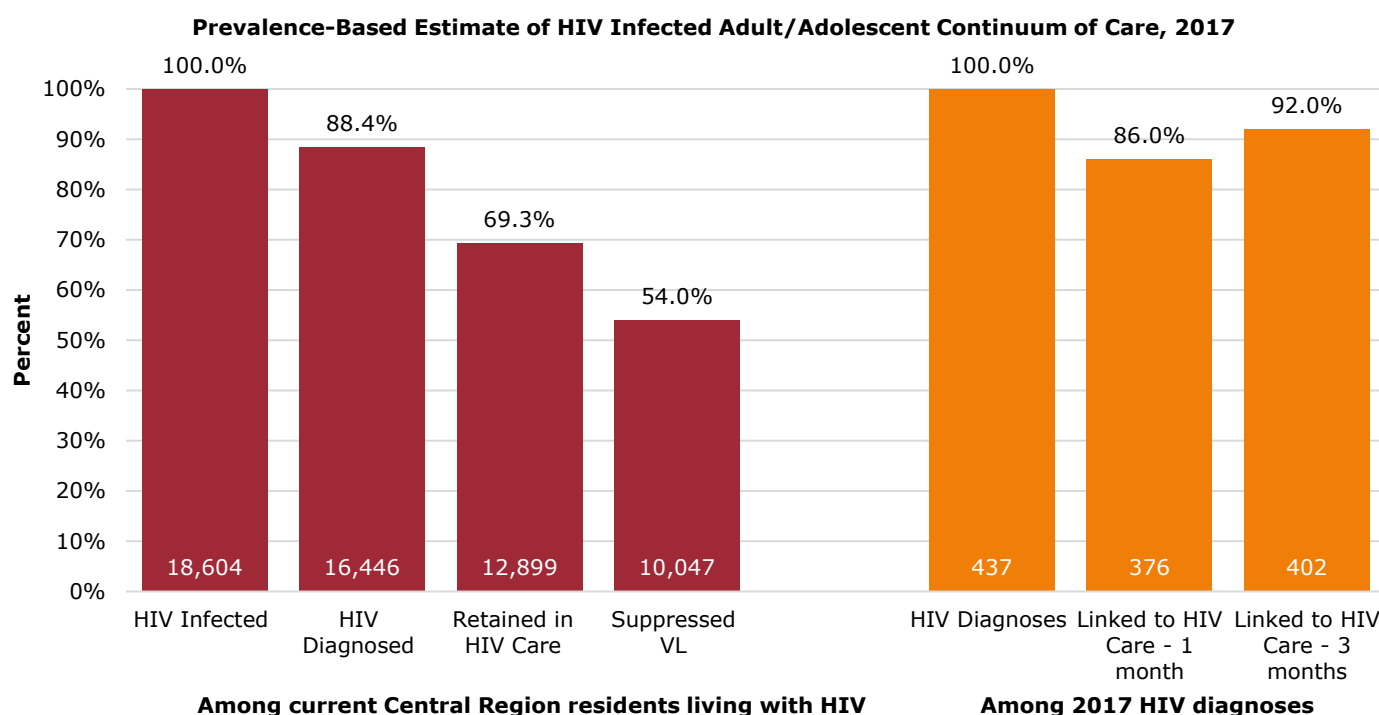
Note. Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1 percent of cases missing transmission category after multiple imputation

Section III – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Central Region Residents, Reported through June 30, 2018

The prevalence-based Central Region Engagement in HIV Care Cascade (below) applies the Centers for Disease Control and Prevention (CDC) CD4 depletion model to Maryland surveillance data, reported through June 30, 2018, to estimate the number of people living with undiagnosed HIV (11.6 percent) and the estimated number of HIV infected persons currently residing in Maryland. Maryland surveillance data is then used to describe the number and percentage of persons living with HIV in the Central Region on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



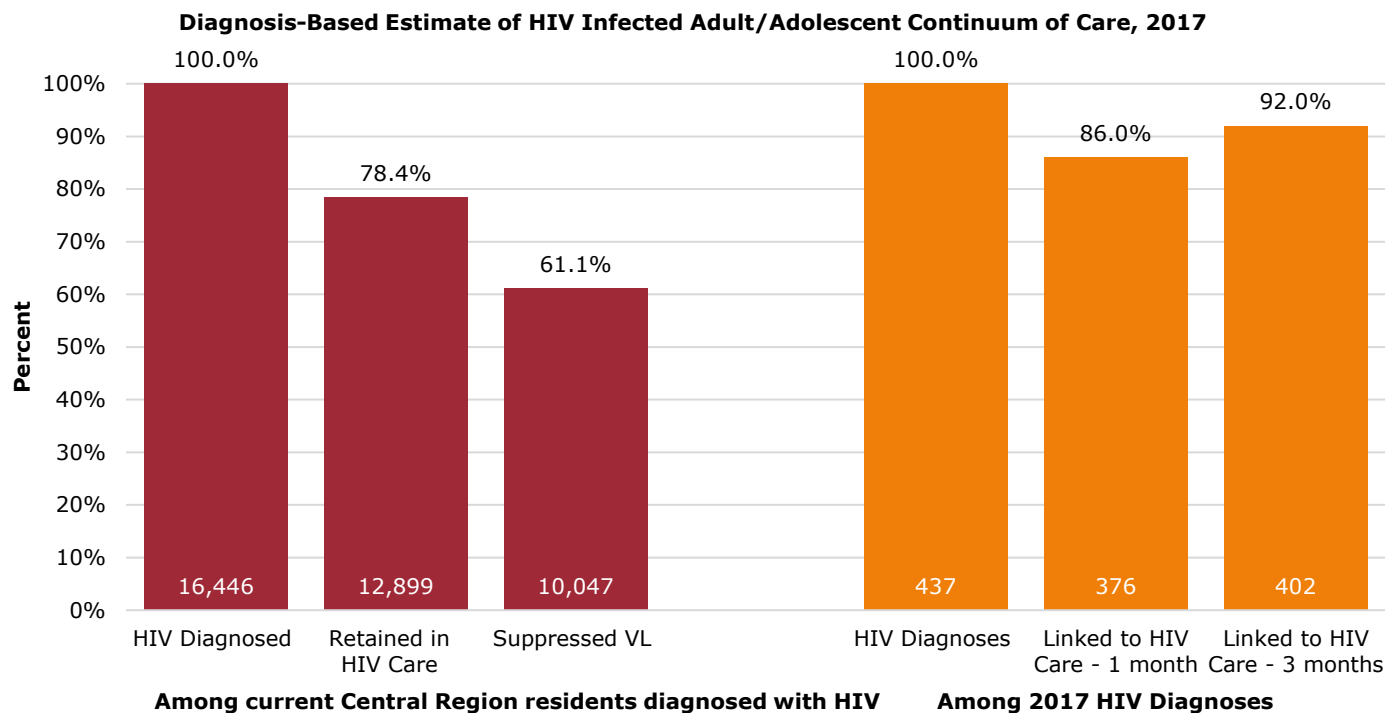
Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	18,604	100.0%	New HIV Diagnoses	437	100.0%
HIV Diagnosed	16,446	88.4%	Linked to HIV Care – 1 Month	376	86.0%
Retained in HIV Care	12,899	69.3%	Linked to HIV Care – 3 Months	402	92.0%
Suppressed VL	10,047	54.0%			

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” Clin Infect Dis. 2011; 52 (6): 793-800.

² Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2010–2015. HIV Surveillance Supplemental Report 2018;23(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published March 2018.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2017 HIV Continuum of Care Cascades, Current Central Region Residents, Reported through June 30, 2018

The diagnosis-based Central Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Central Region residents to describe the number and percentage of persons living with HIV in the Central Region on December 31, 2017 and the number and percentage of new HIV diagnoses in 2017 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	16,446	100.0%	New HIV Diagnoses	437	100.0%
Retained in HIV Care	12,899	78.4%	Linked to HIV Care – 1 Month	376	86.0%
Suppressed VL	10,047	61.1%	Linked to HIV Care – 3 Months	402	92.0%

Section IV – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at HIV Diagnosis	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Anne Arundel	480,992	42	9.6%	8.7	85.7%	90.5%	26.2%	83.3%	332
Baltimore City	517,321	231	52.9%	44.7	85.7%	91.8%	20.8%	88.3%	415
Baltimore	703,196	112	25.6%	15.9	89.3%	93.8%	23.2%	92.9%	362
Carroll	142,850	8	1.8%	5.6	87.5%	100.0%	***	100.0%	391
Harford	212,766	24	5.5%	11.3	87.5%	91.7%	50.0%	87.5%	228
Howard	266,287	20	4.6%	7.5	70.0%	85.0%	***	85.0%	214
Total	2,323,411	437	100.0%	18.8	86.0%	92.0%	24.7%	89.0%	377

*** Data withheld due to low population counts and/or case counts

Table 2 – Adult/Adolescent AIDS Diagnoses during 2017, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at AIDS Diagnosis	Population Age 13+	Adult/Adolescent Reported AIDS Diagnoses				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Anne Arundel	480,992	22	7.7%	4.6	5.8	50.0%
Baltimore City	517,321	175	61.2%	33.8	6.9	31.4%
Baltimore	703,196	60	21.0%	8.5	4.8	55.0%
Carroll	142,850	2	0.7%	1.4	***	***
Harford	212,766	12	4.2%	5.6	***	***
Howard	266,287	15	5.2%	5.6	2.7	80.0%
Total	2,323,411	286	100.0%	12.3	5.8	43.4%

*** Data withheld due to low population counts and/or case counts

Table 3 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2018

Jurisdiction of Residence at Diagnosis	Population Age 13+	Adult/Adolescent Living HIV Cases without AIDS			Adult/Adolescent Living HIV Cases with AIDS			Adult/Adolescent Total Living HIV Cases			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Anne Arundel	480,992	568	7.0%	118.1	666	6.8%	138.5	1,234	6.9%	256.6	389
Baltimore City	517,321	5,585	68.3%	1,079.6	6,875	70.3%	1,329.0	12,460	69.4%	2,408.6	41
Baltimore	703,196	1,454	17.8%	206.8	1,611	16.5%	229.1	3,065	17.1%	435.9	229
Carroll	142,850	65	0.8%	45.5	76	0.8%	53.2	141	0.8%	98.7	1,013
Harford	212,766	201	2.5%	94.5	258	2.6%	121.3	459	2.6%	215.7	463
Howard	266,287	299	3.7%	112.3	292	3.0%	109.7	591	3.3%	221.9	450
Total	2,323,411	8,172	100.0%	351.7	9,778	100.0%	420.8	17,950	100.0%	772.6	129

Table 4 – Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2018

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Anne Arundel	480,992	1,234	6.9%	256.6	389	1,303	7.9%	270.9	369	5.6%
Baltimore City	517,321	12,460	69.4%	2,408.6	41	10,453	63.6%	2,020.6	49	-16.1%
Baltimore	703,196	3,065	17.1%	435.9	229	3,420	20.8%	486.4	205	11.6%
Carroll	142,850	141	0.8%	98.7	1,013	140	0.9%	98.0	1,020	-0.7%
Harford	212,766	459	2.6%	215.7	463	488	3.0%	229.4	435	6.3%
Howard	266,287	591	3.3%	221.9	450	642	3.9%	241.1	414	8.6%
Total	2,323,411	17,950	100.0%	772.6	129	16,446	100.0%	707.8	141	-8.4%

Table 5 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases								
	No.	Recent CD4 Test Result							
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+	
Anne Arundel	1,303	914	70.1%	606	10.6%	9.1%	15.9%	64.4%	
Baltimore City	10,453	7,372	70.5%	566	11.5%	13.8%	16.8%	58.0%	
Baltimore	3,420	2,407	70.4%	609	9.1%	11.9%	14.9%	64.1%	
Carroll	140	85	60.7%	571	9.4%	15.3%	14.1%	61.2%	
Harford	488	344	70.5%	560	11.9%	14.2%	16.0%	57.8%	
Howard	642	466	72.6%	573	10.1%	13.1%	15.7%	61.2%	
Total	16,446	11,588	70.5%	579	10.8%	13.0%	16.2%	59.9%	

Table 6 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
Anne Arundel	1,303	928	71.2%	84.6%		8,460
Baltimore City	10,453	7,765	74.3%	81.7%		12,391
Baltimore	3,420	2,517	73.6%	85.3%		9,945
Carroll	140	91	65.0%	85.7%		28,480
Harford	488	345	70.7%	87.0%		10,910
Howard	642	474	73.8%	84.4%		5,951
Total	16,446	12,120	73.7%	82.9%		11,500

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through June 30, 2018

Age at HIV Diagnosis	Population	Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
<5 (Pediatric)	165,693	1	0.2%	0.6	***	***	***	***	***
5-12 (Pediatric)	269,301	0	0.0%	0.0	--	--	--	--	--
13-19	239,865	29	6.6%	12.1	***	***	***	***	***
20-29	379,714	137	31.3%	36.1	83.2%	87.6%	19.0%	86.9%	414
30-39	382,582	108	24.7%	28.2	86.1%	96.3%	21.3%	91.7%	415
40-49	341,581	65	14.8%	19.0	89.2%	92.3%	32.3%	90.8%	284
50-59	393,105	62	14.2%	15.8	88.7%	95.2%	32.3%	85.5%	327
60+	586,564	36	8.2%	6.1	86.1%	88.9%	41.7%	94.4%	234
Total	2,758,405	438	100.0%	15.9	86.1%	92.0%	24.7%	89.0%	377

*** Data withheld due to low population counts and/or case counts

Table 8 – HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Population	Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	165,693	3	0.0%	33.3%	1.8	55,231
5-12	269,301	23	0.1%	17.4%	8.5	11,708
13-19	239,865	91	0.6%	15.4%	37.9	2,635
20-29	379,714	1,517	9.2%	30.7%	399.5	250
30-39	382,582	2,778	16.9%	41.9%	726.1	137
40-49	341,581	3,345	20.3%	57.3%	979.3	102
50-59	393,105	5,353	32.5%	65.9%	1,361.7	73
60+	586,564	3,362	20.4%	67.9%	573.2	174
Total	2,758,405	16,472	100.0%	56.9%	597.2	167

Table 9 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	91	57	62.6%	640	0.0%	5.3%	21.1%	73.7%
20-29	1,517	999	65.9%	559	12.3%	11.8%	17.0%	58.9%
30-39	2,778	1,879	67.6%	591	11.7%	11.7%	15.6%	61.0%
40-49	3,345	2,329	69.6%	580	11.7%	13.1%	16.1%	59.2%
50-59	5,353	3,920	73.2%	581	10.5%	13.6%	16.3%	59.6%
60+	3,362	2,404	71.5%	577	9.7%	13.8%	16.3%	60.2%
Total	16,446	11,588	70.5%	579	10.8%	13.0%	16.2%	59.9%

Table 10 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Age on December 31, 2017, Reported through June 30, 2018

Age on December 31, 2017	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
13-19	91	64	70.3%	71.9%	6,660
20-29	1,517	1,059	69.8%	65.1%	15,586
30-39	2,778	1,957	70.4%	77.4%	9,135
40-49	3,345	2,425	72.5%	82.3%	14,500
50-59	5,353	4,092	76.4%	86.3%	10,690
60+	3,362	2,523	75.0%	90.2%	6,913
Total	16,446	12,120	73.7%	82.9%	11,500

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+	Adult/Adolescent Reported HIV Diagnoses							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Sex at Birth									
Male	1,108,003	311	71.2%	28.1	86.2%	91.6%	24.1%	89.1%	379
Female	1,215,408	126	28.8%	10.4	85.7%	92.9%	26.2%	88.9%	372
Gender									
Male	--	302	69.1%	--	86.8%	91.7%	24.8%	89.7%	371
Female	--	126	28.8%	--	85.7%	92.9%	26.2%	88.9%	372
Transgender Female	--	9	2.1%	--	66.7%	88.9%	0.0%	66.7%	499
Transgender Male	--	0	0.0%	--	--	--	--	--	--
Another Gender Identity	--	0	0.0%	--	--	--	--	--	--
Race/Ethnicity									
Hispanic	118,895	25	5.7%	21.0	92.0%	92.0%	20.0%	92.0%	392
Non-Hispanic	2,204,516	412	94.3%	18.7	85.7%	92.0%	25.0%	88.8%	377
American Indian/Alaska Native, only	5,835	0	0.0%	0.0	--	--	--	--	--
Asian, only	136,250	6	1.4%	4.4	100.0%	100.0%	***	83.3%	137
Black, only	674,304	313	71.6%	46.4	85.0%	90.4%	22.0%	87.9%	391
Native Hawaiian/Other Pacific Islander, only	1,157	0	0.0%	0.0	--	--	--	--	--
White, only	1,345,876	80	18.3%	5.9	87.5%	96.3%	31.3%	92.5%	301
Multiracial/Other	41,095	13	3.0%	31.6	84.6%	100.0%	***	92.3%	208
Total	2,323,411	437	100.0%	18.8	86.0%	92.0%	24.7%	89.0%	377
Country of Birth									
United States	2,033,343	375	85.8%	18.4	84.8%	91.5%	24.0%	88.3%	371
Foreign-Born	260,542	42	9.6%	16.1	92.9%	95.2%	33.3%	92.9%	379
Africa	--	19	4.3%	--	94.7%	94.7%	31.6%	94.7%	323
Asia	--	6	1.4%	--	100.0%	100.0%	***	83.3%	136
Caribbean	--	5	1.1%	--	***	***	***	***	***
Central America	--	11	2.5%	--	90.9%	90.9%	***	90.9%	483
Other	--	1	0.2%	--	***	***	***	***	***
Unknown	--	20	4.6%	--	95.0%	95.0%	***	95.0%	413
Total	2,293,885	437	100.0%	19.1	86.0%	92.0%	24.7%	89.0%	377

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

*** Data withheld due to low population and/or case counts

Table 12 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity, and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Population Age 13+	Adult/Adolescent Total Living HIV Cases				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Sex at Birth						
Male	1,108,003	10,653	64.8%	56.0%	961.5	104
Female	1,215,408	5,793	35.2%	58.8%	476.6	209
Gender						
Male	--	10,466	63.6%	56.2%	--	--
Female	--	5,785	35.2%	58.8%	--	--
Transgender Female	--	187	1.1%	44.9%	--	--
Transgender Male	--	8	0.0%	37.5%	--	--
Another Gender Identity	--	0	0.0%	0.0%	--	--
Race/Ethnicity						
Hispanic	118,895	742	4.5%	54.0%	624.1	160
Non-Hispanic	2,204,516	15,704	95.5%	57.1%	712.4	140
American Indian/Alaska Native, only	5,835	6	0.0%	50.0%	102.8	972
Asian, only	136,250	88	0.5%	39.8%	64.6	1,548
Black, only	674,304	12,405	75.4%	57.7%	1,839.7	54
Native Hawaiian/Other Pacific Islander, only	1,157	1	0.0%	0.0%	86.4	1,156
White, only	1,345,876	2,190	13.3%	52.5%	162.7	614
Multiracial/Other	41,095	1,014	6.2%	61.6%	2,467.5	40
Total	2,323,411	16,446	100.0%	57.0%	707.8	141
Country of Birth						
United States	2,033,343	15,214	92.5%	57.9%	748.2	133
Foreign-Born	260,542	775	4.7%	51.7%	297.5	336
Africa	--	420	54.2%	50.2%	--	--
Asia	--	97	12.5%	55.7%	--	--
Caribbean	--	65	8.4%	50.8%	--	--
Central America	--	133	17.2%	52.6%	--	--
Other	--	60	7.7%	55.0%	--	--
Unknown	--	457	2.8%	36.5%	--	--
Total	2,293,885	16,446	100.0%	57.0%	716.9	139

Note. Population data by sex at birth, age, and race/ethnicity are from the 2017 U.S. Census population estimates. Population data by gender are unavailable. Population data by country of birth are from the 2016 American Community Survey.

Table 13 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Sex at Birth								
Male	10,653	7,369	69.2%	562	10.8%	14.0%	16.7%	58.4%
Female	5,793	4,219	72.8%	625	10.9%	11.3%	15.4%	62.4%
Gender								
Male	10,466	7,256	69.3%	562	10.8%	14.0%	16.7%	58.5%
Female	5,785	4,215	72.9%	625	10.9%	11.2%	15.4%	62.4%
Transgender Female	187	113	60.4%	545	10.6%	12.4%	20.4%	56.6%
Transgender Male	8	4	50.0%	561	0.0%	25.0%	25.0%	50.0%
Another Gender Identity	0	--	--	--	--	--	--	--
Race/Ethnicity								
Hispanic	742	529	71.3%	572	10.0%	13.2%	17.6%	59.2%
Non-Hispanic	15,704	11,059	70.4%	580	10.9%	13.0%	16.2%	59.9%
American Indian/Alaska Native, only	6	***	***	***	***	***	***	***
Asian, only	88	63	71.6%	567	4.8%	19.0%	12.7%	63.5%
Black, only	12,405	8,737	70.4%	575	11.1%	13.3%	16.4%	59.2%
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***	***	***	***
White, only	2,190	1,501	68.5%	608	9.0%	12.5%	14.5%	64.0%
Multiracial/Other	1,014	756	74.6%	575	13.2%	10.4%	16.9%	59.4%
Country of Birth								
United States	15,214	10,727	70.5%	580	11.2%	13.0%	16.0%	59.8%
Foreign-Born	775	560	72.3%	576	7.0%	12.0%	19.1%	62.0%
Africa	420	295	70.2%	582	7.1%	10.8%	20.0%	62.0%
Asia	97	69	71.1%	561	4.3%	15.9%	17.4%	62.3%
Caribbean	65	49	75.4%	631	4.1%	8.2%	20.4%	67.3%
Central America	133	105	78.9%	554	10.5%	13.3%	17.1%	59.0%
Other	60	42	70.0%	550	4.8%	14.3%	19.0%	61.9%
Unknown	457	301	65.9%	554	6.3%	15.0%	18.3%	60.5%
Total	16,446	11,588	70.5%	579	10.8%	13.0%	16.2%	59.9%

*** Data withheld due to low population and/or case counts

Table 14 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Sex at Birth, Gender, Race/Ethnicity and Country of Birth, Reported through June 30, 2018

Demographic Characteristics	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Sex at Birth					
Male	10,653	7,654	71.8%	83.6%	13,368
Female	5,793	4,466	77.1%	81.9%	9,296
Gender					
Male	10,466	7,527	71.9%	83.8%	13,328
Female	5,785	4,460	77.1%	81.9%	9,313
Transgender Female	187	127	67.9%	68.5%	16,599
Transgender Male	8	6	75.0%	83.3%	2,148
Another Gender Identity	0	--	--	--	--
Race/Ethnicity					
Hispanic	742	538	72.5%	83.6%	13,163
Non-Hispanic	15,704	11,582	73.8%	82.9%	11,160
American Indian/Alaska Native, only	6	***	***	***	***
Asian, only	88	66	75.0%	92.4%	114,570
Black, only	12,405	9,168	73.9%	81.8%	10,576
Native Hawaiian/Other Pacific Islander, only	1	***	***	***	***
White, only	2,190	1,574	71.9%	88.7%	18,725
Multiracial/Other	1,014	772	76.1%	83.4%	15,969
Country of Birth					
United States	15,214	11,250	73.9%	82.6%	11,798
Foreign-Born	775	560	72.3%	89.1%	7,066
Africa	420	296	70.5%	89.5%	14,073
Asia	97	71	73.2%	94.4%	60,203
Caribbean	65	50	76.9%	90.0%	597
Central America	133	101	75.9%	82.2%	10,207
Other	60	42	70.0%	92.9%	5,180
Unknown	457	310	67.8%	84.5%	4,022
Total	16,446	12,120	73.7%	82.9%	11,500

*** Data withheld due to low population and/or case counts

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on December 31, 2017 and Reported through June 30, 2018

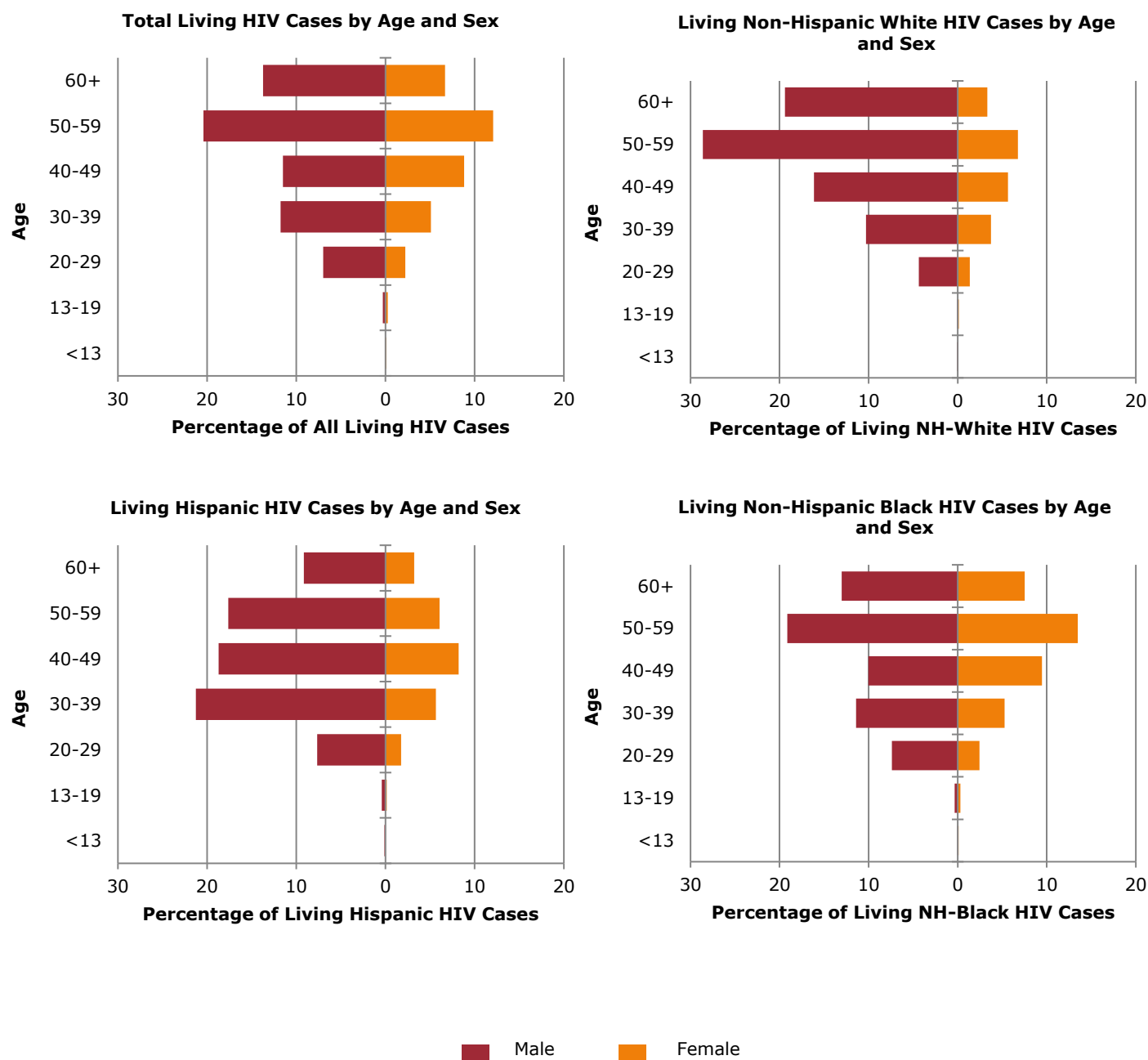


Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017, and Reported through June 30, 2018

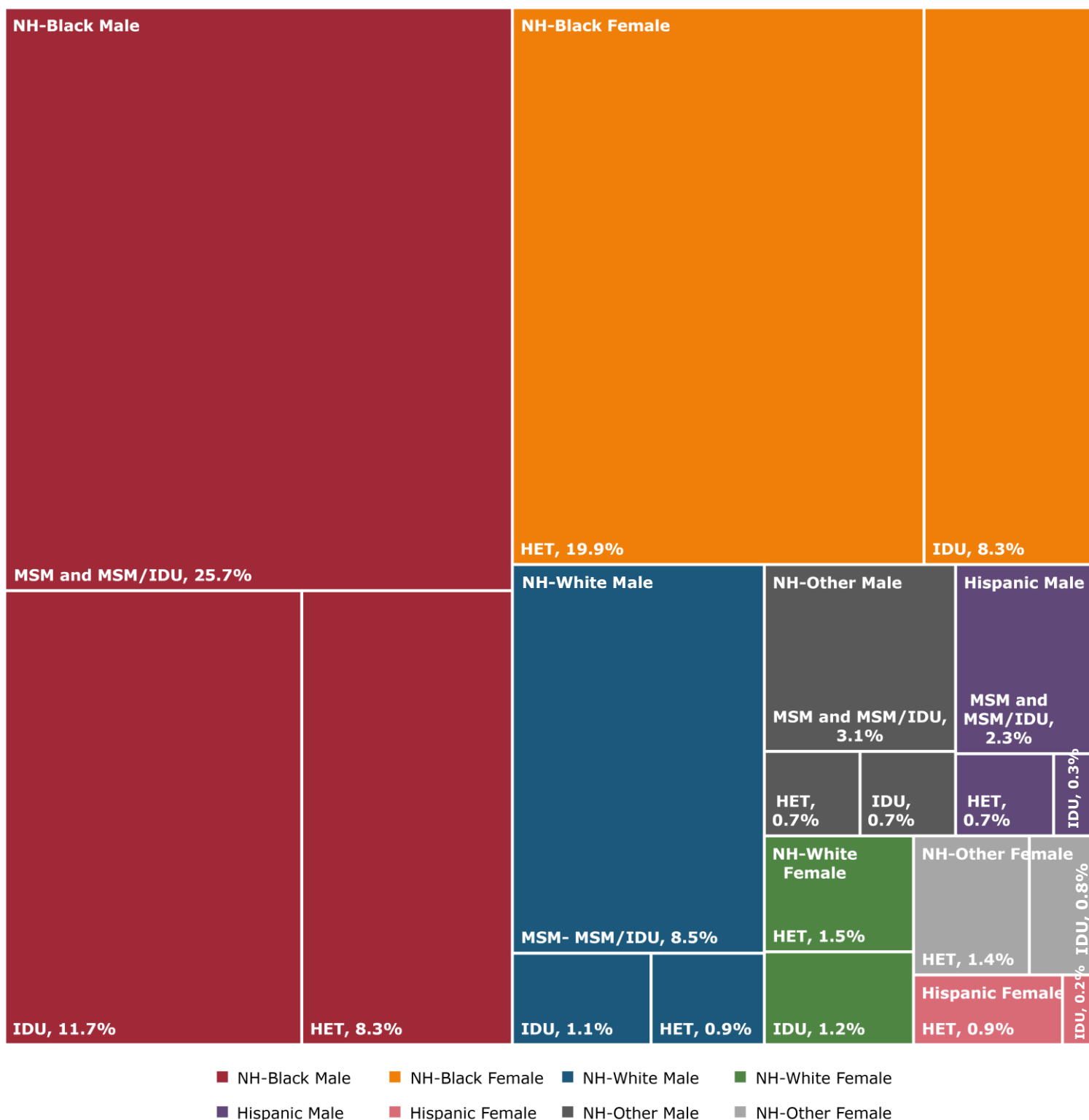
Total Living Male HIV Cases						
Age on December 31, 2017		Race/Ethnicity				Total Males by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	22,627	70,816	102,032	26,022	221,498
	Cases	1	8	2	1	12
	Rate	4.4	11.3	2.0	3.8	5.4
	Ratio (1 in X)	22,627	8,852	51,016	26,022	18,458
13-19	Population	9,260	39,755	60,651	12,680	122,345
	Cases	3	41	2	3	49
	Rate	32.4	103.1	3.3	23.7	40.1
	Ratio (1 in X)	3,086	969	30,325	4,226	2,496
20-29	Population	13,310	59,708	100,138	16,935	190,091
	Cases	57	920	96	77	1,150
	Rate	428.2	1,540.8	95.9	454.7	605.0
	Ratio (1 in X)	233	64	1,043	219	165
30-39	Population	15,929	50,279	101,763	17,653	185,624
	Cases	158	1,418	226	135	1,937
	Rate	991.9	2,820.3	222.1	764.7	1,043.5
	Ratio (1 in X)	100	35	450	130	95
40-49	Population	11,646	46,454	90,697	15,222	164,019
	Cases	139	1,246	354	154	1,893
	Rate	1,193.5	2,682.2	390.3	1,011.7	1,154.1
	Ratio (1 in X)	83	37	256	98	86
50-59	Population	6,870	50,553	118,929	11,535	187,887
	Cases	131	2,377	627	229	3,364
	Rate	1,906.8	4,702.0	527.2	1,985.3	1,790.4
	Ratio (1 in X)	52	21	189	50	55
60+	Population	4,970	57,174	182,363	13,530	258,037
	Cases	68	1,619	425	148	2,260
	Rate	1,368.2	2,831.7	233.1	1,093.9	875.8
	Ratio (1 in X)	73	35	429	91	114
Total Males by Race/Ethnicity	Population	84,612	374,739	756,573	113,577	1,329,501
	Cases	557	7,629	1,732	747	10,665
	Rate	658.3	2,035.8	228.9	657.7	802.2
	Ratio (1 in X)	151	49	436	152	124

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on December 31, 2017, and Reported through June 30, 2018

Total Living Female HIV Cases						
Age on December 31, 2017		Race/Ethnicity				Total Females by Age Group
		Hispanic	Non-Hispanic Black, only	Non-Hispanic White, only	Non-Hispanic Other Race	
<13 (Pediatric)	Population	21,483	68,765	97,568	25,680	213,496
	Cases	0	13	0	1	14
	Rate	0.0	18.9	0.0	3.9	6.6
	Ratio (1 in X)	--	5,289	--	25,680	15,249
13-19	Population	8,711	39,114	57,181	12,514	117,520
	Cases	1	37	3	1	42
	Rate	11.5	94.6	5.2	8.0	35.7
	Ratio (1 in X)	8,711	1,057	19,060	12,514	2,798
20-29	Population	12,178	63,623	96,231	17,591	189,623
	Cases	13	304	30	20	367
	Rate	106.7	477.8	31.2	113.7	193.5
	Ratio (1 in X)	936	209	3,207	879	516
30-39	Population	13,551	62,276	101,029	20,102	196,958
	Cases	42	653	82	64	841
	Rate	309.9	1,048.6	81.2	318.4	427.0
	Ratio (1 in X)	322	95	1,232	314	234
40-49	Population	10,245	56,622	93,409	17,286	177,562
	Cases	61	1,177	124	90	1,452
	Rate	595.4	2,078.7	132.7	520.7	817.7
	Ratio (1 in X)	167	48	753	192	122
50-59	Population	6,311	61,814	124,060	13,033	205,218
	Cases	45	1,677	148	119	1,989
	Rate	713.0	2,713.0	119.3	913.1	969.2
	Ratio (1 in X)	140	36	838	109	103
60+	Population	5,914	86,932	219,426	16,255	328,527
	Cases	24	936	73	69	1,102
	Rate	405.8	1,076.7	33.3	424.5	335.4
	Ratio (1 in X)	246	92	3,005	235	298
Total Females by Race/Ethnicity	Population	78,393	439,146	788,904	122,461	1,428,904
	Cases	186	4,797	460	364	5,807
	Rate	237.3	1,092.3	58.3	297.2	406.4
	Ratio (1 in X)	421	91	1,715	336	246

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017, Reported through June 30, 2018



Note. Other exposure category and perinatal transmission not shown (<2 percent). Multiple imputation was used to estimate and adjust for missing transmission category.

Table 17 – Adult/Adolescent HIV Diagnoses during 2017, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Reported HIV Diagnoses						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
Male-to-male Sexual Contact (MSM)	229	52.4%	86.5%	91.4%	21.6%	88.5%	416
Injection Drug Use (IDU)	43	9.9%	79.2%	88.9%	***	81.7%	285
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	7	1.6%	85.3%	85.3%	***	100.0%	406
Heterosexual Contact (HET)	158	36.2%	87.3%	93.9%	27.9%	91.3%	348
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	437	100.0%	86.0%	92.0%	24.7%	89.0%	377
Male Estimated or Reported Exposure Category							
Male-to-male Sexual Contact (MSM)	229	73.6%	86.5%	91.4%	21.6%	88.5%	416
Injection Drug Use (IDU)	21	6.8%	93.9%	94.8%	***	90.1%	330
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	7	2.2%	85.3%	85.3%	***	100.0%	406
Heterosexual Contact (HET)	54	17.3%	81.8%	92.0%	33.6%	89.6%	305
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	311	100.0%	86.2%	91.6%	24.1%	89.1%	379
Female Estimated or Reported Exposure Category							
Injection Drug Use (IDU)	22	17.4%	64.8%	83.1%	32.0%	73.5%	222
Heterosexual Contact (HET)	104	82.6%	90.1%	94.9%	25.0%	92.1%	377
Perinatal Transmission	0	0.0%	--	--	--	--	--
Other Exposures	0	0.0%	--	--	--	--	--
No Estimated or Reported Exposure	0	0.0%	--	--	--	--	--
Total	126	100.0%	85.7%	92.9%	26.2%	88.9%	372

Note. Data for 2017 are preliminary because they are based on a 6-month reporting delay and should not be used to assess trends. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

*** Data withheld due to low population and/or case counts

Table 18 – Adult/Adolescent Living HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category and Sex at Birth, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases		
	No.	% of Total	% Living with AIDS
Male-to-male Sexual Contact (MSM)	5,767	35.1%	47.2%
Injection Drug Use (IDU)	4,007	24.4%	71.6%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	742	4.5%	68.0%
Heterosexual Contact (HET)	5,628	34.2%	54.9%
Perinatal Transmission	236	1.4%	64.0%
Other Exposures	31	0.2%	90.3%
No Estimated or Reported Exposure	35	0.2%	31.4%
Total	16,446	100.0%	57.0%
Male Estimated or Reported Exposure Category			
Male-to-male Sexual Contact (MSM)	5,767	54.1%	47.2%
Injection Drug Users (IDU)	2,279	21.4%	72.1%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	742	7.0%	68.0%
Heterosexual Contact (HET)	1,732	16.3%	58.4%
Perinatal Transmission	100	0.9%	67.0%
Other Exposures	18	0.2%	88.9%
No Estimated or Reported Exposure	16	0.2%	31.3%
Total	10,653	100.0%	56.0%
Female Estimated or Reported Exposure Category			
Injection Drug Use (IDU)	1,729	29.8%	71.0%
Heterosexual Contact (HET)	3,896	67.3%	53.3%
Perinatal Transmission	136	2.3%	61.8%
Other Exposures	13	0.2%	92.3%
No Estimated or Reported Exposure	19	0.3%	31.6%
Total	5,793	100.0%	58.8%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

Table 19 – Adult/Adolescent Total Living HIV Cases by Estimated or Reported Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on December 31, 2017 and Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total	No.	% of Total	No.	% of Total
Male-to-male Sexual Contact (MSM)	350	47.2%	3,678	29.6%	1,294	59.1%
Injection Drug Use (IDU)	86	11.5%	3,300	26.6%	378	17.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	36	4.9%	545	4.4%	95	4.4%
Heterosexual Contact (HET)	263	35.4%	4,633	37.3%	396	18.1%
Perinatal Transmission	4	0.5%	208	1.7%	9	0.4%
Other Exposures	1	0.1%	11	0.1%	17	0.8%
No Estimated or Reported Exposure	2	0.3%	30	0.2%	1	0.0%
Total	742	100.0%	12,405	100.0%	2,190	100.0%
Male Estimated or Reported Exposure Category						
Male-to-male Sexual Contact (MSM)	350	63.0%	3,678	48.3%	1,294	74.8%
Injection Drug Use (IDU)	54	9.6%	1,929	25.3%	179	10.3%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	36	6.5%	545	7.2%	95	5.5%
Heterosexual Contact (HET)	113	20.3%	1,367	17.9%	142	8.2%
Perinatal Transmission	2	0.4%	85	1.1%	6	0.3%
Other Exposures	1	0.2%	3	0.0%	13	0.8%
No Estimated or Reported Exposure	0	0.0%	13	0.2%	1	0.1%
Total	556	100.0%	7,621	100.0%	1,730	100.0%
Female Estimated or Reported Exposure Category						
Injection Drug Use (IDU)	32	17.3%	1,371	28.7%	199	43.3%
Heterosexual Contact (HET)	150	80.6%	3,265	68.3%	254	55.2%
Perinatal Transmission	2	1.1%	123	2.6%	3	0.7%
Other Exposures	0	0.0%	8	0.2%	4	0.9%
No Estimated or Reported Exposure	2	1.1%	17	0.4%	0	0.0%
Total	186	100.0%	4,784	100.0%	460	100.0%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. For exposure category by gender, please see the Maryland HIV Epidemiological Profile Transgender Persons Supplement.

Table 20 – CD4 Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male-to-male Sexual Contact (MSM)	5,767	3,927	68.1%	603	8.2%	11.7%	15.6%	64.6%
Injection Drug Use (IDU)	4,007	2,978	74.3%	526	14.6%	15.6%	16.9%	52.9%
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	742	558	75.2%	537	12.1%	15.5%	17.4%	55.0%
Heterosexual Contact (HET)	5,628	3,934	69.9%	601	9.8%	12.0%	16.3%	61.9%
Perinatal Transmission	236	154	65.3%	469	26.0%	13.0%	16.2%	44.8%
Other Exposures	31	20	64.5%	553	5.0%	20.0%	20.0%	55.0%
No Estimated or Reported Exposure	35	17	48.6%	554	29.4%	5.9%	11.8%	52.9%
Total	16,446	11,588	70.5%	579	10.8%	13.0%	16.2%	59.9%

Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median count is weighted based on statistical adjustment.

Table 21 – Viral Load Test Results during 2017 for Adult/Adolescent HIV Cases Alive on December 31, 2017, by Estimated or Reported Exposure Category, Reported through June 30, 2018

Estimated or Reported Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male-to-male Sexual Contact (MSM)	5,767	4,137	71.7%	83.9%	12,664
Injection Drug Use (IDU)	4,007	3,077	76.8%	81.9%	16,341
Male-to-male Sexual Contact and Injection Drug Use (MSM/IDU)	742	566	76.3%	84.0%	14,430
Heterosexual Contact (HET)	5,628	4,133	73.4%	83.6%	7,970
Perinatal Transmission	236	166	70.3%	58.4%	6,080
Other Exposures	31	21	67.7%	95.2%	43,863
No Estimated or Reported Exposure	35	19	54.3%	57.9%	8,450
Total	16,446	12,120	73.7%	82.9%	11,500

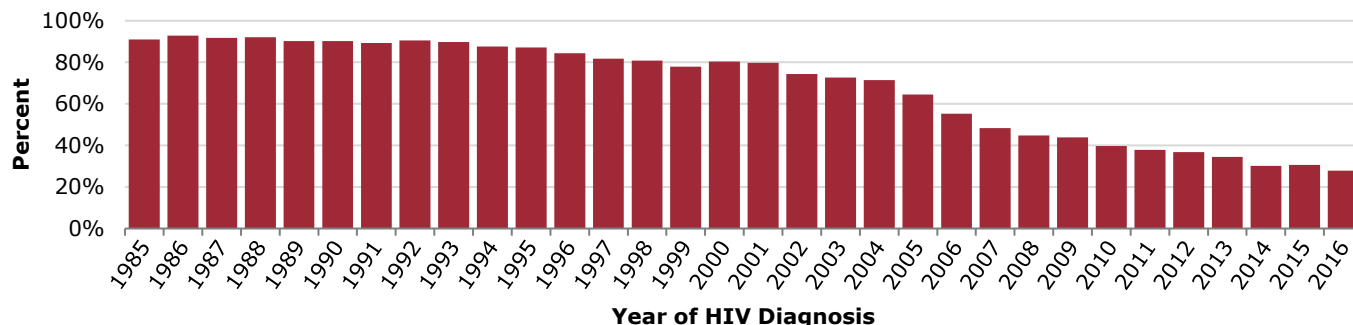
Note. Data have been statistically adjusted to account for missing transmission category, therefore, values may not sum to column total. Median unsuppressed is weighted based on statistical adjustment.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2016, Reported through June 30, 2018

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by December 31, 2017 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by December 31, 2017, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018

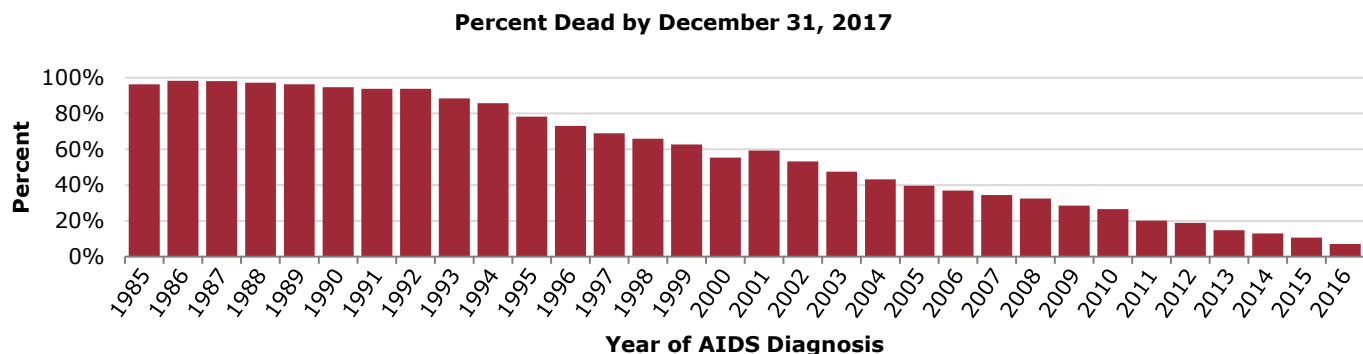
Percent with AIDS by December 31, 2017



Year of HIV Diagnosis	Adult/Adolescent Reported HIV Diagnoses							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	234	227	97.0%	7.2	34.2%	34.2%	37.6%	68.4%
1985	444	404	91.0%	6.6	25.9%	27.5%	35.1%	74.8%
1986	589	547	92.9%	5.5	33.3%	34.3%	46.5%	79.5%
1987	752	690	91.8%	4.7	33.5%	37.0%	54.1%	82.6%
1988	1,133	1,043	92.1%	3.9	38.1%	42.0%	63.5%	85.5%
1989	1,428	1,290	90.3%	3.7	37.9%	43.3%	66.8%	83.0%
1990	1,500	1,353	90.2%	3.0	44.1%	51.0%	73.1%	84.5%
1991	1,707	1,524	89.3%	2.7	46.6%	56.0%	73.8%	83.9%
1992	1,644	1,488	90.5%	2.7	50.5%	58.8%	75.4%	84.1%
1993	1,523	1,366	89.7%	2.3	53.8%	61.9%	76.2%	85.4%
1994	1,366	1,197	87.6%	2.4	53.5%	61.4%	74.2%	82.4%
1995	1,330	1,160	87.2%	2.3	57.0%	62.6%	72.6%	82.3%
1996	1,228	1,037	84.4%	2.0	59.3%	64.2%	71.5%	80.2%
1997	1,256	1,026	81.7%	2.1	54.9%	60.0%	68.7%	77.3%
1998	1,254	1,015	80.9%	2.1	55.4%	59.3%	68.2%	76.4%
1999	1,153	898	77.9%	1.8	55.8%	59.8%	68.1%	74.7%
2000	1,099	882	80.3%	1.8	55.9%	60.2%	69.5%	77.1%
2001	1,196	953	79.7%	1.6	58.1%	62.0%	71.0%	76.4%
2002	1,398	1,040	74.4%	1.8	53.3%	56.7%	64.2%	70.9%
2003	1,214	882	72.7%	1.5	54.0%	57.8%	63.7%	70.2%
2004	1,203	859	71.4%	1.6	51.5%	55.5%	62.1%	68.8%
2005	1,245	803	64.5%	1.6	46.3%	49.4%	56.1%	63.0%
2006	1,321	730	55.3%	1.7	38.2%	40.5%	47.6%	54.2%
2007	1,181	572	48.4%	2.1	29.2%	32.3%	40.1%	47.3%
2008	1,127	505	44.8%	1.8	28.2%	31.6%	39.1%	--
2009	918	402	43.8%	1.7	27.9%	30.7%	38.8%	--
2010	930	369	39.7%	1.5	25.7%	28.4%	35.9%	--
2011	711	269	37.8%	1.2	26.6%	30.7%	35.4%	--
2012	676	249	36.8%	0.9	28.4%	30.5%	35.9%	--
2013	616	212	34.4%	0.6	28.9%	30.4%	--	--
2014	581	175	30.1%	0.5	25.0%	27.7%	--	--
2015	540	165	30.6%	0.4	25.9%	29.1%	--	--
2016	516	144	27.9%	0.3	25.6%	--	--	--
Total	35,013	25,476	72.8%	2.5	44.3%	48.9%	59.6%	68.8%

**Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2016,
Reported through June 30, 2018**

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by December 31, 2016 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by December 31, 2017 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by December 31, 2017, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2016, as Reported by Name through June 30, 2018



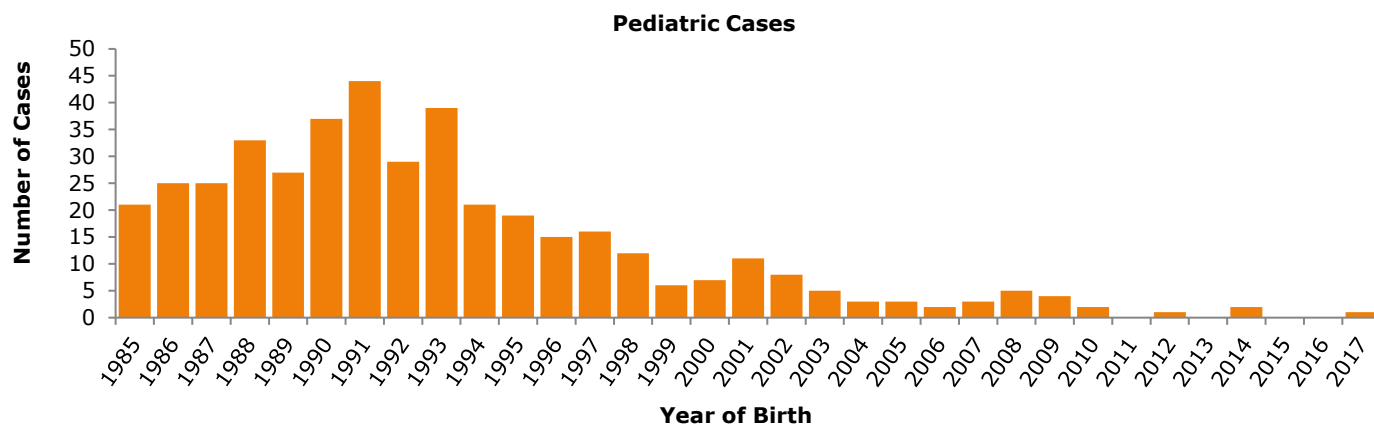
Year of AIDS Diagnosis	Adult/Adolescent Reported AIDS Diagnoses							
	Reported AIDS Deaths				Percent Alive by Years After AIDS Diagnosis			
	No.	No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	77	73	94.8%	2.5	51.9%	32.5%	15.6%	13.0%
1985	107	103	96.3%	1.9	43.0%	22.4%	9.3%	7.5%
1986	175	172	98.3%	2.6	54.3%	36.0%	14.9%	8.6%
1987	266	261	98.1%	2.2	61.7%	33.5%	11.3%	5.3%
1988	435	423	97.2%	2.5	59.3%	39.5%	14.3%	6.9%
1989	556	535	96.2%	2.6	61.0%	39.2%	15.6%	8.1%
1990	783	741	94.6%	2.9	65.9%	46.5%	20.1%	11.6%
1991	975	915	93.8%	2.9	67.8%	46.4%	18.3%	12.3%
1992	1,345	1,262	93.8%	3.1	70.3%	48.7%	20.0%	13.9%
1993	1,542	1,363	88.4%	3.8	77.5%	55.2%	32.3%	20.9%
1994	1,375	1,178	85.7%	4.0	77.1%	58.1%	37.7%	23.6%
1995	1,393	1,091	78.3%	4.9	78.5%	66.2%	49.3%	35.2%
1996	1,299	950	73.1%	5.4	81.9%	74.7%	57.3%	41.3%
1997	1,123	775	69.0%	5.5	85.3%	77.3%	60.7%	44.3%
1998	1,028	677	65.9%	5.6	87.0%	80.1%	63.9%	47.2%
1999	1,009	633	62.7%	5.3	86.9%	79.7%	64.0%	48.5%
2000	892	494	55.4%	4.8	85.9%	80.3%	65.1%	52.9%
2001	1,003	594	59.2%	4.6	85.5%	76.8%	62.2%	50.0%
2002	1,053	560	53.2%	5.1	88.1%	82.4%	69.9%	56.6%
2003	944	447	47.4%	3.8	83.7%	78.1%	66.8%	57.6%
2004	954	412	43.2%	4.1	87.6%	83.0%	72.2%	61.8%
2005	879	348	39.6%	3.9	88.3%	83.3%	73.9%	64.5%
2006	814	301	37.0%	3.6	88.5%	83.8%	74.6%	64.7%
2007	611	211	34.5%	3.4	88.4%	84.9%	76.3%	65.8%
2008	597	194	32.5%	2.8	88.8%	83.8%	74.9%	--
2009	528	151	28.6%	2.9	90.7%	86.9%	77.8%	--
2010	551	146	26.5%	2.7	90.2%	87.5%	80.0%	--
2011	458	92	20.1%	2.4	93.9%	90.8%	82.1%	--
2012	493	93	18.9%	1.6	90.5%	88.4%	81.1%	--
2013	450	66	14.7%	1.6	94.2%	90.2%	--	--
2014	322	42	13.0%	0.8	91.3%	88.2%	--	--
2015	346	37	10.7%	0.7	92.5%	90.5%	--	--
2016*	301	21	7.0%	0.2	93.4%	--	--	--
Total	24,684	15,361	62.2%	4.0	81.5%	70.9%	55.0%	44.8%

*2016 AIDS deaths are preliminary

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2017, Reported through June 30, 2018

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2017, as Reported by Name through June 30, 2018



Year	Pediatric Reported HIV Diagnoses			No. by Year of Death	Pediatric Total Living HIV Cases	
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis		No. Alive on December 31st of Each Year	
<1985	26	2	1	0		--
1985	21	7	5	1		9
1986	25	8	6	4		13
1987	25	16	10	5		24
1988	33	23	15	4		43
1989	27	29	19	5		67
1990	37	36	16	5		99
1991	44	38	26	8		128
1992	29	47	29	9		165
1993	39	45	25	12		198
1994	21	30	19	12		216
1995	19	19	15	12		222
1996	15	22	11	14		231
1997	16	10	7	6		235
1998	12	15	10	3		246
1999	6	14	6	5		256
2000	7	7	2	0		263
2001	11	9	8	3		268
2002	8	6	5	4		270
2003	5	2	2	2		269
2004	3	5	2	3		272
2005	3	1	1	0		274
2006	2	6	3	2		279
2007	3	31	5	4		306
2008	5	8	7	3		311
2009	4	6	3	2		316
2010	2	1	7	4		313
2011	0	2	5	4		312
2012	1	2	3	3		311
2013	0	1	11	1		311
2014	2	2	4	0		314
2015	0	0	2	3		312
2016	0	1	4	2		308
2017	1	1	2	2		307
Total	452	452	296	147		--

Table 22 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Jurisdiction of Current Residence, Reported through June 30, 2018

Jurisdiction of Current Residence	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Anne Arundel	1	4.5%
Baltimore City	13	59.1%
Baltimore	6	27.3%
Carroll	0	0.0%
Harford	2	9.1%
Howard	0	0.0%
Total	22	100.0%

Table 23 – Current Pediatric HIV Total Living HIV Cases, Alive on December 31, 2017, by Sex at Birth and Race/Ethnicity, Reported through June 30, 2018

Demographic Characteristic	Current Pediatric Total Living HIV Cases	
	No.	% of Total
Sex at Birth		
Male	9	40.9%
Female	13	59.1%
Race/Ethnicity		
Hispanic	0	0.0%
Non-Hispanic	22	100.0%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	20	90.9%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	1	4.5%
Multiracial/Other	1	4.5%
Total	22	100.0%

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older as of December 31st of the specified year, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Gender Expression: people's outward presentation of their gender which may or may not conform to socially defined behaviors and characteristics typically associated with being either masculine or feminine.

Gender Identity: refers to one's internal understanding of one's own gender, or the gender with which a person identifies.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for July 1, 2017.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2017.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV diagnosed with a reported CD4 or viral load test result performed or reported antiretroviral use in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Transgender Female: A person whose sex assigned at birth is male but whose gender identity is female.

Transgender Male: A person whose sex assigned at birth is female but whose gender identity is male.

Another Gender Identity: Additional gender identities or gender expressions.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.